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International Specialists in the Environment

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EPA REGION VI

1989 MAY 31 AM 8:45

SUPERFUND BRANCH

MEMORANDUM

TO: Ed Sierra, Region VI RPO

THRU: K. H. Malone, Jr., FITOM *KHM*
RW

FROM: Raymond Wayne, FIT Hydrologist

DATE: May 24, 1989

TDD: F06-8901-29

PAN: FTX0777PAA

SUBJECT: Preliminary Assessment of the AID Warehouse Site
Houston, Harris County, TX (TXD987966066)

X-Ref SA Vol #1

I. Site Information

The FIT was tasked to perform a Preliminary Assessment (PA) of the A International Distribution (AID) Warehouse site at 7198 Mykawa Road, Houston, Texas (Figure 1) (Reference 4, p. 1). Site coordinates are latitude 29°40'27" north and longitude 95°19'17" west (Reference 7). The warehouse is located in a predominantly residential area, approximately three miles northwest of William P. Hobby Airport (Reference 1; Reference 4, p. 1).

The AID Warehouse is currently known as International Distribution Company (IDC) (Reference 3, p. 1). The date and circumstance of the name change are not known. Mr. Doug Walt is its president (Reference 4, Page 2). IDC rents and operates the facility, and the Trammel Crow Company of Houston manages the property for New England Mutual Life Insurance Company, which purchased a 40 percent share of the facility from George A. Shutt in 1979, and the remaining 60 percent from Mykawa Road Houston B. V. in 1986 (Reference 3, p. 2, Deeds).

II. Background/Operating History

A. Site History

The site is an active warehouse which employs approximately 20 workers (Reference 24). Conservation Services, Inc. and its sister company SIGNO, placed 127 overpacked drums of chemicals into the AID Warehouse in March, 1986. CSI and SIGNO shipped 31 of the 127 drums to Oregon

PRELIMINARY REPORT
This does not constitute
final opinion of EPA

Reviewed by GH-ES
Date 5-31-89
RC

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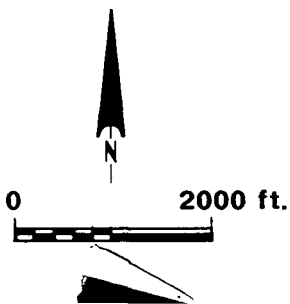


FIGURE 1
SITE LOCATION MAP
AID WAREHOUSE
HOUSTON, TEXAS
TXD987966066

California Chemicals and abandoned 91 drums at the warehouse (Reference 4, p. 1). The disposition of the remaining five drums has not been determined. CSI and SIGNO are both defunct (Reference 4, p. 2).

B. Discussion of Known/Potential Problem(s)

AID Warehouse contacted the Texas Water Commission (TWC) for assistance in removing the abandoned drums. The TWC referred AID to the EPA Region VI Emergency Response Branch (ERB) (Reference 4, p. 1). The EPA Technical Assistance Team (TAT) inspected the site on May 19, 1988 (Reference 3, p. 2). Based on the results of the investigation, the EPA issued an Administrative Order on June 22, 1988 requiring AID to remove the drums (Reference 4, pp. 1 and 2).

On November 16, 1988, under supervision of the ERB, 84 drums of hazardous chemicals were overpacked and shipped to disposal facilities and 7 drums containing ORZAN-A were disposed as non-hazardous (Reference 4, p. 2). The removal met the EPA criteria established in the Administrative Order (Reference 4, p. 3).

C. Regulatory Involvement

There are no records by other regulatory agencies of waste related incidents involving AID Warehouse (References 5 through 10).

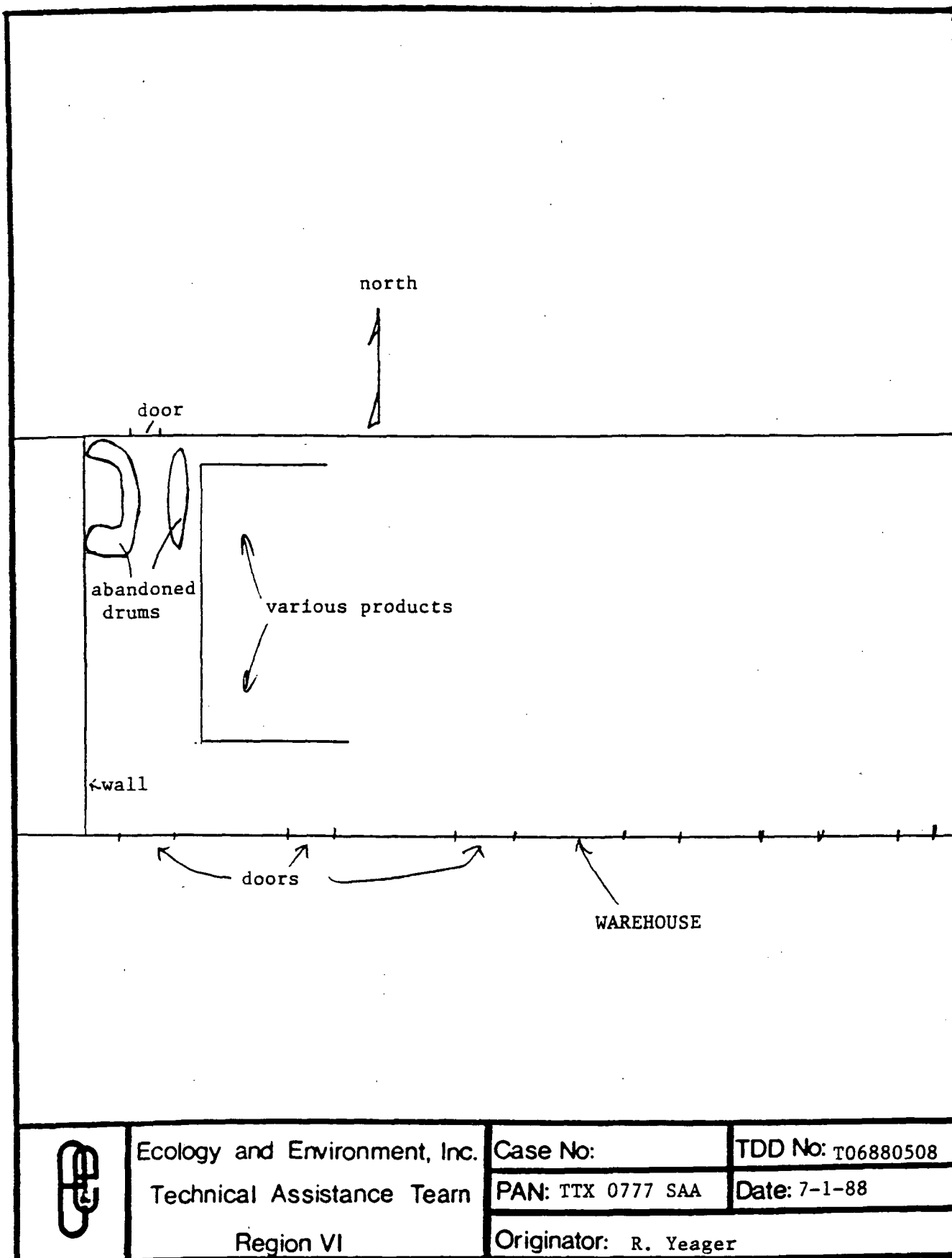
III. Waste Containment/Hazardous Substance Identification

The drum labels on the 91 abandoned drums indicated that the drums contained pesticides and pesticide formulation products (Reference 3, p. 2). Seven drums labeled DDT were sampled by the Texas Department of Agriculture. Analytical results revealed that these drums contained ORZAN-A, rather than DDT (Reference 4, pp. 1 and 2).

The physical conditions of 88 of the 91 drums were characterized by the TAT as good or fair. Three of the 91 drums were characterized as poor, because one, which contained poison, had a corrosion hole in its lid; a second drum, which contained diethyl sulfate, was rusted and corroded; and a third, which contained toxaphene, had a dented overpack lid (Reference 3, Field Log).

The Organic Vapor Analyzer (OVA) was used to measure air quality in the warehouse. Elevated levels of volatile organics were recorded directly above the tops of several drums, and background levels in the walking areas (aisles) (Reference 3, Field Log). The OVA measured 200 to 500 parts per million (ppm) over several drums labeled benzene, 10 ppm over one drum labeled diethyl sulfate, 10 ppm over one drum labeled ORZAN-A, 100 ppm over one drum labeled isobutyronitrile, and 3 ppm over one drum labeled boiler water (Reference 3, p. 2).

There were no reports or indications that the drums had spilled while on-site (Reference 4, p. 2; Reference 11, p. 1; Reference 12). The drums were located in a fully enclosed building (Figure 2) with a concrete floor (Reference 12).



CERCLIS #:TXD987966066

FIGURE 2 SITE SKETCH
I.D.C. WAREHOUSE

(not to scale)

IV. Pathway Characteristics

A. Air Pathway Characteristics

There is no air route pathway under current site conditions. All hazardous waste was removed from the site (Reference 4, p. 3).

B. Ground Water Characteristics

The Chicot aquifer underlies the site, at a depth ranging from 175 to 200 feet. The Chicot is a water table aquifer comprised of approximately 500 feet of interbedded sand and clay. The hydraulic conductivity ranges from 10^{-3} to 10^{-2} cm/sec. The ground water flow direction near the site has not been determined (Reference 19).

In the unsaturated zone, the Beaumont Clay comprises the uppermost 15 to 20 feet. More than half of the unsaturated zone is comprised of clay, and because of this and the presence of the Beaumont Clay, the area surrounding the site is not a recharge zone for the Chicot (Reference 19). The net precipitation of the site is minus 6.7 inches (Reference 20, Figures 4 and 5).

The Chicot is hydrologically connected to the underlying Evangeline Aquifer. The Evangeline, approximately 1,500 feet thick, is comprised of sands and clays, and has a hydraulic conductivity of approximately 10^{-3} cm/sec. There are no known discontinuities in either the Chicot or Evangeline aquifers within four miles of the site (Reference 19).

C. Surface Water Characteristics

Runoff is generated from the approximately 115 acres which contain the site. The runoff area is bounded by a dirt road on the north and west and paved roads on the south and east (Reference 1). The 2-year, 24-hour rainfall is five inches (Reference 27). The 91 abandoned drums were not subjected to rainfall or runoff (Reference 12).

Based upon the topographic map (Reference 1), site runoff is likely to flow into an unnamed intermittent ditch south of the site. The runoff flows southerly in the ditch and discharges into Sims Bayou, approximately 1.6 downstream miles from the site. The Sims Bayou flows northeast and discharges into Buffalo Bayou, approximately 11.5 downstream miles from the site. The runoff flows east in Buffalo Bayou for the remainder of the 15 downstream miles (Reference 1). In Water Year 1987, the mean daily flow of Sims Bayou was 168 cubic feet per second (cfs) and Buffalo Bayou 390 cfs, when measured at the stream gauging stations closest to the site (Reference 14).

D. On-Site Pathway Characteristics

There is no on-site exposure route under current site conditions. All hazardous waste was removed from the site (Reference 4, p. 3).

V. Targets

A. Air

The target population for the air pathway consists of the approximately 20 on-site employees and the approximately 212,500 residents within four miles of AID (Reference 2; Reference 24). The additional employed population, and the number of people attending institutions within four miles of the site, have not been determined.

Land within four miles of the site is utilized primarily for single family residences, but commercial, industrial and institutional usage is also represented (Reference 1; Reference 25). With the possible exception of small areas in which cattle graze, there is no agricultural land use within four miles of the site (Reference 18). There are no known sensitive environments within four miles of the site (Reference 13).

B. Ground Water

The City of Houston pumps seven drinking water supply wells within four miles of the site. The nearest municipal well (South Park #5) is less than one mile south of the site and is screened 795 feet below land surface. The city's Bellfort well has the most shallow screened depth (655 feet) and is located approximately three miles west of the site (Reference 1; Reference 17). The seven municipal wells are screened in the Evangeline aquifer (Reference 17; Reference 19).

The municipal wells are interconnected to the city water supply system (Reference 17). The city water distribution system provides drinking water to the entire area within four miles of the site and approximately 380,000 active connections system-wide (Reference 16). There are no known irrigation or domestic drinking water wells within four miles of the site (Reference 17).

C. Surface Water

There are no drinking water extraction points within 15 downstream miles of the site. The only extraction is for industrial use. Houston Power and Light (Deep Water Plant) extracts water from Buffalo Bayou, approximately 12.5 downstream miles from the site. Houston Power uses the surface water for cooling purposes during power generation (Reference 15). There are no recreational structures or uses for 15 downstream miles from the site (Reference 22; Reference 23). There are no agricultural or aquacultural uses of the runoff pathway (Reference 18). Sensitive environments may be located within 15 downstream miles of the site, but there are no critical habitats for federally listed endangered species (Reference 13).

D. On-Site

AID Warehouse is an active facility which employs 20 workers (Reference 12; Reference 24). It does not have an on-site, residential population,

but there are approximately 21,000 residents within one mile of the site (Reference 2). The number of people working or attending institutions within one mile of the site has not been determined.

VI. Conclusions

Beginning in March 1986, AID Warehouse stored 127 drums of chemicals for CSI and SIGNO. When CSI and SIGNO went out of business, they abandoned the 91 drums remaining in the warehouse. The chemicals contained in the drums included pesticide related compounds. The EPA Emergency Response Branch inspected the site and EPA issued an Administrative Order requiring the AID Warehouse to properly dispose the abandoned drums. On November 16, 1988, AID Warehouse disposed the 91 abandoned drums in compliance with EPA criteria.

There is no documentation to suggest that hazardous substances remain on-site or have migrated from the site.

INTEROFFICE MEMORANDUM

TO: File

THRU: K. H. Malone, Jr., FITOM *KH*

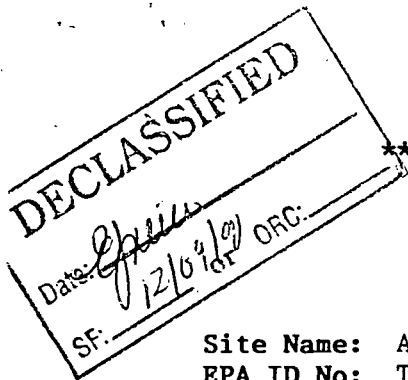
FROM: Raymond Wayne, FIT Hydrologist

DATE: May 22, 1989

SUBJECT: PreScore Rationale for the AID Warehouse Site, Houston, TX
(TXD987966066)
TDD: F06-8901-29
PAN: FTX0777PAA

There are no data gaps for this Preliminary Assessment which would significantly change the HRS score. The preliminary and projected scores were identical.

- 1 Both the air route and on-site exposure route pathways received a score of zero because all hazardous waste has been removed from the site.
- 2 The surface water runoff pathway received a score of zero because there is no target population usage of this pathway.
- 3 No analytical evidence was found that indicated a release of hazardous substances to surface water.



*****CONFIDENTIAL*****PRE-DECISIONAL DOCUMENT*****
~~PRESCORE ANALYSIS HRS SCORESHEET~~

Site Name: AID Warehouse
EPA ID No: TXD987966066
TDD No: F06-8901-29
City: Houston
County: Harris
State: Texas

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DEC 24 1991

Site Evaluator: Raymond Wayne *RW*
Region VI FIT Hydrologist
Date: April 20, 1989

REGIONAL
CENTER

POTENTIAL RELEASES

- ☒ Ground Water
☐ Surface Water
☐ Air
☐ On-Site/Direct Contact

SCORING SCENARIOS

	Preliminary	Projected
GROUNDWATER ROUTE SCORE (Sgw) =	5.72	5.72
SURFACE WATER ROUTE SCORE (Sw) =	0.00	0.00
AIR ROUTE SCORE (Sa) =	0.00	0.00
TOTAL SCORE (Sm) =	3.31	3.31

NEW HRS MODEL CONSIDERATIONS

GROUND WATER ROUTE: No significant scoring differences.

SURFACE WATER ROUTE: No significant scoring differences.

AIR ROUTE: Not applicable because all hazardous waste has been removed.

ON-SITE ROUTE: Not applicable because all hazardous waste has been removed.

~~GROUND WATER ROUTE WORKSHEET~~ *****

	Preliminary	Reference	Projected	Reference
1. OBSERVED RELEASE	0		0	
2. ROUTE CHARACTERISTICS				
DEPTH TO AQUIFER OF CONCERN (x2)	0	19	0	19
NET PRECIPITATION	1	1, 20	1	1, 20
PERMEABILITY OF UNSATURATED ZONE	0	19, 20	0	19, 20
PHYSICAL STATE	3	3	3	3
ROUTE CHARACTERISTIC SCORE	4		4	
3. CONTAINMENT	1	3, 11, 12, 20	1	3, 11, 12, 20
4. WASTE CHARACTERISTICS				
TOXICITY/PERSISTENCE	18	3, 21	18	3, 21
HAZARDOUS WASTE QUANTITY	2	4	2	4
WASTE CHARACTERISTICS SCORE =	20		20	
5. TARGETS				
GROUNDWATER USE (x3)	6	16, 17	6	16, 17
DISTANCE TO NEAREST WELL/POPULATION SERVED	35	16, 17	35	16, 17
TOTAL TARGET SCORE =	41		41	
(1x4x5) or (2x3x4x5) =	3280		3280	
GROUNDWATER ROUTE SCORE				
(1x4x5) or (2x3x4x5) x 100 =	57,330	5.72	5.72	

***** SURFACE WATER ROUTE WORKSHEET *****

	Preliminary	Reference	Projected	Reference
1. OBSERVED RELEASE	0	Memo 3	0	Memo 3
2. ROUTE CHARACTERISTICS				
FACILITY SLOPE AND INTERVENING TERRAIN	0	1	0	1
1-YEAR 24-HOUR RAINFALL	3	20, Fig. 8	3	20, Fig. 8
DISTANCE TO NEAREST SURFACE WATER (x2)	2	1	2	1
PHYSICAL STATE	3	3	3	3
ROUTE CHARACTERISTIC SCORE	8		8	
3. CONTAINMENT	1	3, 11, 12, 20, Table 9	1	3, 11, 12 20, Table 9
4. WASTE CHARACTERISTICS				
TOXICITY/PERSISTENCE	18	3, 21	18	3, 21
HAZARDOUS WASTE QUANTITY	2	4	2	4
WASTE CHARACTERISTICS SCORE =	20		20	
5. TARGETS				
SURFACE WATER USE (x3)	0	15, 18, 22, 23, Memo 2	0	15, 18, 22, 23 Memo 2
DISTANCE TO A SENSITIVE ENVIRONMENT (x2)	0	1	0	1
POPULATION SERVED/ DISTANCE TO DOWNSTREAM WATER INTAKE	0	1, 15	0	1, 15
TOTAL TARGET SCORE =	0		0	
(1x4x5) or (2x3x4x5) =	0		0	
SURFACE WATER ROUTE SCORE =				
(1x4x5) or (2x3x4x5) x 100 = 64,350	0		0	

~~*****CONFIDENTIAL*****PRE-DECISIONAL DOCUMENT*****~~

***** AIR ROUTE WORKSHEET *****

	Preliminary	Reference	Projected	Reference
1. OBSERVED RELEASE	0	Memo 1	0	Memo 1
DATE AND LOCATION				
2. WASTE CHARACTERISTICS				
REACTIVITY AND INCOMPATIBILITY	2	3, 26	2	3, 26
TOXICITY (x3)	9	3, 21	9	3, 21
HAZARDOUS WASTE QUANTITY	2	4	2	4
WASTE CHARACTERISTICS SCORE =	13		13	
3. TARGETS				
POPULATION WITHIN FOUR MILES	24	2	24	2
DISTANCE TO SENSITIVE ENVIRONMENT (x2)	0	1	0	1
LAND USE	3	12	3	12
TOTAL TARGET SCORE =	27		27	
(1x2x3)	= 0		0	
AIR ROUTE SCORE				
(1x2x3) x 100 35,100	= 0		0	

=====

Preliminary S_m WORKSHEET

	S	S^2
Groundwater Route Score (Sgw)	5.72	32.72
Surface Water Route Score (Ssw)	0.00	0.00
Air Route Score (Sa)	0.00	0.00
$Sgw^2 + Ssw^2 + Sa^2$		32.72
$(Sgw^2 + Ssw^2 + Sa^2)^{1/2}$		5.72
$(Sgw^2 + Ssw^2 + Sa^2)^{1/2} / 1.73 = S_M =$		3.31

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Projected S_m WORKSHEET

	S	S^2
Groundwater Route Score (Sgw)	5.72	32.72
Surface Water Route Score (Ssw)	0.00	0.00
Air Route Score (Sa)	0.00	0.00
$Sgw^2 + Ssw^2 + Sa^2$		32.72
$(Sgw^2 + Ssw^2 + Sa^2)^{1/2}$		5.72
$(Sgw^2 + Ssw^2 + Sa^2)^{1/2} / 1.73 = S_M =$		3.31

AID WAREHOUSE
Preliminary Assessment References

Reference Number	Description of the Reference
1	United States Geological Survey Topographic Map. 7.5 Minute Series. Quadrangles: Bellaire, Texas (1982). Park Place, Texas (1982). Pasadena, Texas, (1982). Pearland, Texas (1982).
2	1980 Census of Population and Housing, Census Tracts, Houston, Texas. U.S. Department of Commerce, Bureau of the Census. July 1983.
3	Yeager, Richard, TAT. Site Assessment Report for Abandoned Drums at IDC Warehouse (Formerly AID Warehouse), Houston, Harris County, Texas. File: TXD987966066. EPA Region VI. T06-8805-08. May 25, 1988
4	Gazda, Charles A., Chief, EPA Emergency Response Branch. Memorandum. To: Larry D. Wright, Chief, EPA Superfund Enforcement Branch. After-Action Report, IDC (formerly A International Distribution Warehouse), Houston, Harris County, Texas. EPA Region VI. February 27, 1989.
5	ROC. To: Antonio Amors, Environmental Specialist, Houston Health Department, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 13, 1989.
6	ROC. To: Jay Swindle, Engineer, Solid and Hazardous Waste Section, Houston Health Department, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 9, 1989.
7	ROC. To: Jim Taylor, Engineer, Harris County Pollution Control Department, Pasadena, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 9, 1989.
8	ROC. To: Susan Ripley, Field Investigator, Hazardous Waste Section, Texas Water Commission, Deer Park, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 9, 1989.
9	ROC. To: Sandra Cantu, Clerk, Central Records, Texas Water Commission, Austin, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 9, 1989.
10	ROC. To: Don Rennie, Pesticide Enforcement Coordinator, Pesticide Enforcement Division, Texas Department of Agriculture, Austin, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 9, 1989.

Reference**Number Description of the Reference**


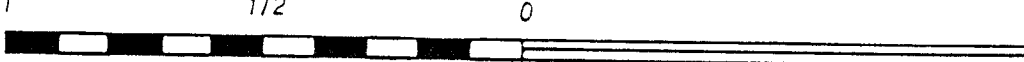

- 11 Ayers, Diana G., Chief, EPA Environmental Services Division, Houston Branch. Memorandum. To: Bill Taylor, Chief, EPA Enforcement Section. RCRA Compliance Inspection Report for the A International Distribution Facility, Houston, Texas, EPA Region VI. December 7, 1987.
- 12 ROC. To: David Dodgen, On-Scene Coordinator, Emergency Response Division, U.S. EPA, Dallas, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 18, 1989.
- 13 ROC. To: Allan Mueller, Assistant Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 19, 1989.
- 14 ROC. To: Ed Ranzau, Hydrologist, Surface Water Division, United States Geological Survey, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 19, 1989.
- 15 ROC. To: Tom Buckingham, Assistant Section Chief, Water Rights Administration Section, Texas Water Commission, Austin, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 19, 1989.
- 16 ROC. To: Billy Risinger, Section Chief, Meter Reading Section, City of Houston Water Department, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 19, 1989.
- 17 ROC. To: Kathlie Sheu, Engineer, Ground Water Section, Public Works Department, City of Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. March 28, 1989. Support Documents Included.
- 18 ROC. To: David Myers, District Conservationist, U.S. Soil Conservation Service, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 19, 1989.
- 19 ROC. To: Dana Barbie, Section Chief, Ground Water and Subsidence Section, U.S. Geological Survey, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 20, 1989.
- 20 Uncontrolled Hazardous Waste Ranking System: A Users Manual. 47FR31219-31243, (Appendix A, CERCLA). July 16, 1982.

7:


Reference


Number	Description of the Reference
21	Sax, N. Irving. Dangerous Properties of Industrial Materials, Sixth Edition. Van Nostrand Reinhold Company. New York. 1984.
22	ROC. To: Petty Hunter, Superintendent, City of Houston Parks Department, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 20, 1989.
23	ROC. To: Al Calloway, Executive Assistant to Harris County Commissioner (Precinct 1) El Franco Lee, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 20, 1989.
24	ROC. To David Dodgen, On-Scene Coordinator, Emergency Response Division, U.S. EPA, Dallas, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 21, 1989.
25	ROC. To: John L. Jones, Recreation Superintendent, Edgewood Park, City of Houston Parks Department, Houston, Texas. From: Raymond Wayne, FIT Hydrologist, Ecology and Environment, Inc., EPA Region VI. April 21, 1989.
26	National Fire Protection Association. 1984. Fire Protection Guide on Hazardous Materials, 8th Edition.
27	Herschfield, D. M. Rainfall Frequency Atlas of the United States. U.S. Weather Bureau Technical Paper No. 40.

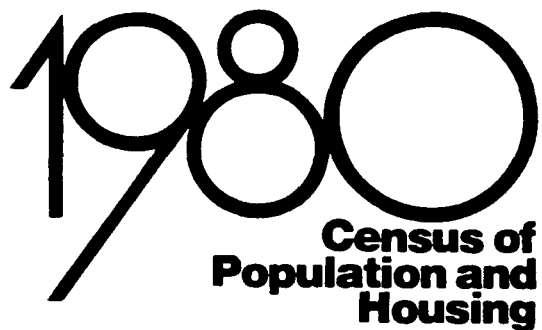


 ecology and environment, inc.		SITE NAME <u>AID WAREHOUSE</u>	
USGS TOPOGRAPHIC MAPS		LOCATION <u>HOUSTON, TEXAS</u>	
NAME <u>BELLAIRE, TEXAS</u>		SITE ID <u>TXD987968066</u>	
DATE <u>1982</u>		NAME <u>PARK PLACE, TEXAS</u>	
REVISED		DATE <u>1982</u>	
NAME <u>ALMEDA, TEXAS</u>		NAME <u>PEARLAND, TEXAS</u>	
DATE <u>1982</u>		DATE <u>1982</u>	
REVISED		REVISED	
Scale 1:24000		REFERENCE <u>1</u>	
			
		QUADRANGLE LOCATION	

LEGEND

 MUNICIPAL WELL

 SURFACE WATER RUNOFF PATHWAY



Census Tracts

HOUSTON, TEX.

**STANDARD METROPOLITAN
STATISTICAL AREA**

PHC80-2-184

Section 1: Tables P-1—P-17

Issued July 1983



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Robert G. Dederick,
Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS
Bruce Chapman, Director

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts

AGE

	Tract 0302	Tract 0303	Tract 0304.01	Tract 0304.02	Tract 0305.01	Tract 0305.02	Tract 0306	Tract 0307.01	Tract 0307.02	Tract 0308	Tract 0309.01	Tract 0309.02	Tract 0309.03
Total persons	6 654	2 127	4 642	5 206	4 250	4 251	5 119	5 780	4 900	7 431	6 049	3 086	3 110
Under 5 years	692	197	337	507	364	323	333	579	351	406	655	286	301
5 to 9 years	606	184	419	464	361	356	356	523	358	376	524	166	220
10 to 14 years	489	184	415	486	364	372	390	469	321	294	436	127	153
15 to 19 years	571	227	438	495	314	788	429	478	352	916	505	262	189
20 to 24 years	814	195	391	417	363	761	504	639	577	2 002	649	611	307
25 to 34 years	1 351	264	612	754	667	490	880	1 129	927	1 372	1 123	773	533
35 to 44 years	643	199	405	483	378	305	543	606	422	536	544	265	270
45 to 54 years	488	216	472	456	437	253	545	486	478	506	449	164	233
55 to 64 years	431	193	434	499	400	298	491	397	487	389	475	175	330
65 to 74 years	285	176	426	384	356	178	440	322	360	397	407	164	351
75 years and over	284	92	293	261	246	127	208	152	267	237	282	93	223
3 and 4 years	261	74	144	193	139	119	140	228	139	149	244	84	116
16 years and over	4 760	1 510	3 385	3 639	3 098	3 122	3 947	4 096	3 808	6 299	4 343	2 486	2 399
18 years and over	4 537	1 427	3 199	3 451	2 973	2 963	3 776	3 922	3 662	6 162	4 159	2 397	2 334
21 years and over	4 139	1 293	2 938	3 182	2 779	2 134	3 541	3 633	3 424	4 980	3 800	2 144	2 197
60 years and over	747	355	925	866	798	439	870	653	859	814	921	354	740
62 years and over	674	317	832	767	704	374	789	573	767	752	835	308	687
Median	26.0	27.3	29.8	27.8	30.1	21.0	30.4	26.3	29.6	24.1	26.8	25.7	31.5
Female	3 245	1 091	2 538	2 765	2 240	2 326	2 663	3 013	2 716	3 576	3 073	1 427	1 616
Under 5 years	320	99	179	255	157	158	169	286	173	233	335	141	154
5 to 9 years	280	81	218	215	188	176	193	262	164	196	288	92	105
10 to 14 years	248	89	199	258	182	192	173	225	171	145	203	62	64
15 to 19 years	293	114	194	250	156	358	221	259	192	502	248	133	95
20 to 24 years	374	106	228	230	191	404	219	312	301	890	320	282	144
25 to 34 years	579	127	334	402	350	286	430	566	505	494	501	279	249
35 to 44 years	301	106	227	262	167	213	291	312	231	246	251	109	133
45 to 54 years	247	117	236	242	231	154	291	268	300	273	244	78	128
55 to 64 years	227	96	260	254	237	194	272	234	280	220	257	102	183
65 to 74 years	177	97	271	228	208	110	267	180	212	229	244	96	214
75 years and over	199	59	192	169	173	81	137	109	187	148	182	53	147
3 and 4 years	136	32	71	92	61	56	72	128	65	78	119	47	63
16 years and over	2 332	807	1 896	1 983	1 681	1 765	2 081	2 179	2 178	2 976	2 202	1 126	1 274
18 years and over	2 210	761	1 814	1 886	1 624	1 694	1 994	2 092	2 108	2 904	2 112	1 070	1 245
21 years and over	2 028	689	1 688	1 745	1 528	1 292	1 877	1 933	1 960	2 286	1 931	948	1 171
60 years and over	471	198	595	515	496	281	538	404	539	481	552	213	464
62 years and over	436	183	530	465	447	235	486	353	489	448	509	186	433
Median	26.6	28.4	31.7	28.8	31.8	22.4	32.5	27.3	31.2	23.7	27.1	25.1	34.8

HOUSEHOLD TYPE AND RELATIONSHIP

Total persons	6 654	2 127	4 642	5 206	4 250	4 251	5 119	5 780	4 900	7 431	6 049	3 086	3 110
In households	6 608	2 122	4 624	5 206	4 250	3 365	5 119	5 680	4 665	5 751	6 049	3 086	3 034
Householder	2 243	791	1 852	1 941	1 758	1 289	2 076	2 053	1 781	2 381	2 112	1 315	1 199
Family householder	1 485	496	1 075	1 232	1 000	803	1 210	1 345	1 247	1 319	1 408	731	785
Nonfamily householder	758	295	777	709	758	486	866	708	534	1 062	704	584	414
Living alone	609	263	687	613	699	448	737	569	438	854	589	468	357
Spouse	1 134	245	419	567	442	244	650	640	733	974	1 120	551	651
Other relatives	2 828	1 007	2 165	2 465	1 899	1 727	2 064	2 630	1 954	1 847	2 570	961	1 034
Nonrelatives	403	79	188	233	151	105	329	357	197	549	247	259	150
Inmate of institution	-	-	-	-	-	-	-	-	-	-	-	-	-
Other, in group quarters	46	5	18	-	-	886	-	3	-	1 680	-	-	58
Persons per household	2.95	2.68	2.50	2.68	2.42	2.61	2.47	2.77	2.62	2.42	2.86	2.35	2.53
Persons per family	3.67	3.52	3.40	3.46	3.34	3.45	3.24	3.43	3.15	3.14	3.62	3.07	3.15
Persons 65 years and over	569	268	719	645	602	305	648	474	627	634	689	257	574
In households	569	267	719	645	602	305	648	407	426	633	689	257	541
Householder	387	207	555	458	457	256	445	274	258	449	475	156	378
Nonfamily householder	218	134	348	231	253	161	211	104	83	251	247	59	172
Living alone	198	124	320	215	241	156	184	96	73	245	232	57	164
Spouse	90	33	67	107	79	28	108	65	92	128	127	66	130
Other relatives	73	20	75	63	56	21	70	59	65	49	77	29	30
Nonrelatives	19	7	22	17	10	-	25	9	11	7	10	6	3
Inmate of institution	-	-	-	-	-	-	-	-	-	-	-	-	-
Other, in group quarters	-	1	-	-	-	-	-	-	201	-	-	-	15

FAMILY TYPE BY PRESENCE OF OWN CHILDREN

Families	1 485	496	1 075	1 232	1 000	803	1 210	1 345	1 247	1 319	1 408	731	785
With own children under 18 years	828	265	525	661	473	477	536	759	575	586	759	332	346
Number of own children under 18 years	1 828	577	1 135	1 443	1 011	1 043	1 052	1 566	1 022	1 095	1 669	583	709
Married-couple families	1 134	245	419	567	442	244	650	640	733	974	1 120	551	651
With own children under 18 years	677	109	182	258	213	102	265	351	278	427	633	252	289
Number of own children under 18 years	1 547	242	358	559	448	208	519	709	481	827	1 418	464	600
Female householder, no husband present	240	216	553	549	433	505	459	599	437	245	202	106	94
With own children under 18 years	128	140	311	366	240	357	248	381	268	140	107	63	42
Number of own children under 18 years	244	303	717	827	523	790	496	813	499	243	213	99	81

MARITAL STATUS

Male, 15 years and over	2 470	740	1 529	1 712	1 448	1 400	1 912	1 969	1 662	3 353	2 187	1 373	1 143
Married, except separated	870	274	630	627	563	912	738	845	550	1 940	676	541	305
Never married	1 312	268	480	605	494	290	725	721	795	1 083	1 247	636	707
Separated	57	66	142	179	118	76	148	147	92	99	54	69	29
Divorced	57	57	116	103	113	48	82	62	65	45	59	16	39
Widowed	174	75	161	198	160	74	219	194	160	186	151	113	63
Female, 15 years and over	2 397	822	1 942	2 037	1 713	1 800	2 128	2 240	2 208	3 002	2 247	1 132	1 293
Married, except separated	554	235	545	594	449	880	555	683	629	1 411	474	285	256
Never married	1 236	267	469	618	480	275	717	714	800	1 025	1 191	592	677
Separated	74	80	225	205	178	190	169	234	178	84	83	52	34
Divorced	329	151	465	365	387	231	342	290	334	267	303	108	227
Widowed	204	89	238	255	219	224	345	319	267	215	196	95	99

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts

AGE

Total persons	7 131	10 079	-	7 792	33	5 359	5 432	4 320	3 644	6 102	3 221	1 493	1 719
Under 5 years	812	1 127	-	809	-	571	534	418	441	433	212	23	110
5 to 9 years	687	1 089	-	827	-	431	470	392	329	477	169	20	42
10 to 14 years	654	988	-	748	-	362	437	452	203	460	156	37	27
15 to 19 years	758	1 098	-	771	12	462	394	471	283	526	208	53	24
20 to 24 years	876	970	-	838	13	649	518	398	397	616	428	492	320
25 to 34 years	1 164	1 568	-	1 265	4	1 028	988	687	786	1 057	928	380	663
35 to 44 years	630	966	-	772	2	491	468	551	317	664	350	119	157
45 to 54 years	649	916	-	678	-	351	416	447	303	722	311	95	90
55 to 64 years	461	661	-	533	2	392	481	278	318	486	218	85	112
65 to 74 years	274	454	-	342	-	398	456	152	188	344	148	99	101
75 years and over	166	242	-	209	-	224	270	74	99	317	93	90	73

3 and 4 years	309	468	-	337	-	204	213	171	168	171	73	6	26
16 years and over	4 837	6 657	-	5 272	33	3 931	3 922	2 959	2 651	4 633	2 646	1 409	1 538
18 years and over	4 554	6 212	-	4 951	29	3 746	3 781	2 773	2 547	4 413	2 572	1 385	1 529
21 years and over	4 036	5 590	-	4 461	18	3 421	3 515	2 504	2 332	4 089	2 422	1 311	1 498
60 years and over	625	975	-	787	2	825	995	331	432	850	331	227	233
62 years and over	553	840	-	681	2	749	891	278	366	762	294	209	199

Median	23.8	23.7	-	24.3	21.4	26.6	28.0	25.4	26.7	29.5	29.0	26.9	28.6
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Female	3 362	4 880	-	3 647	17	2 684	2 828	2 244	1 739	3 249	1 456	848	743
Under 5 years	397	584	-	373	-	284	246	208	205	104	104	10	43
5 to 9 years	330	541	-	385	-	211	236	175	153	240	73	9	22
10 to 14 years	324	495	-	378	-	189	209	215	96	233	87	17	15
15 to 19 years	363	530	-	357	6	224	175	244	139	253	100	26	11
20 to 24 years	383	404	-	348	5	312	262	215	177	314	200	348	146
25 to 34 years	500	716	-	547	2	453	478	374	334	542	367	188	270
35 to 44 years	299	442	-	351	2	231	241	307	132	355	134	54	61
45 to 54 years	294	464	-	308	-	173	213	231	164	399	144	45	43
55 to 64 years	209	309	-	293	2	224	301	145	162	253	101	53	55
65 to 74 years	159	260	-	183	-	230	274	81	106	215	83	64	45
75 years and over	104	135	-	124	-	153	193	48	68	240	63	54	32

3 and 4 years	143	249	-	154	-	96	95	74	74	86	37	2	11
16 years and over	2 243	3 144	-	2 442	17	1 968	2 116	1 593	1 261	2 520	1 168	830	663
18 years and over	2 102	2 928	-	2 297	15	1 877	2 052	1 493	1 214	2 422	1 138	822	658
21 years and over	1 863	2 648	-	2 074	9	1 715	1 921	1 356	1 104	2 252	1 067	764	643
60 years and over	343	519	-	436	2	497	654	185	243	555	182	143	103
62 years and over	309	454	-	377	2	452	573	158	215	508	169	133	87

Median	23.5	23.5	-	24.7	21.5	27.4	30.5	26.4	27.3	31.4	28.9	25.6	28.4
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HOUSEHOLD TYPE AND RELATIONSHIP

Total persons	7 131	10 079	-	7 792	33	5 359	5 432	4 320	3 644	6 102	3 221	1 493	1 719
In households	7 125	10 065	-	7 780	-	5 258	5 432	4 320	3 650	5 818	2 998	1 439	1 611
Householder	2 057	2 718	-	2 152	-	1 894	1 847	1 376	1 314	2 111	1 414	389	898
Family householder	1 514	2 173	-	1 716	-	1 262	1 366	1 095	903	1 443	642	130	360
Nonfamily householder	543	545	-	436	-	632	481	281	411	668	772	259	538
Living alone	425	471	-	349	-	508	386	236	339	548	642	214	428
Spouse	1 188	1 714	-	1 349	-	1 040	1 003	705	737	913	371	112	304
Other relatives	3 511	5 318	-	3 919	-	2 090	2 265	2 120	1 440	2 541	970	59	263
Nonrelatives	369	315	-	360	-	234	317	119	159	253	243	79	146
Inmate of institution	-	-	-	-	-	-	-	-	-	127	131	233	74
Other, in group quarters	6	14	-	12	33	101	-	-	14	157	92	621	34
Persons per household	3.46	3.70	-	3.62	-	2.78	2.94	3.14	2.78	2.76	2.12	1.64	1.79
Persons per family	4.10	4.24	-	4.07	-	3.48	3.39	3.58	3.41	3.39	3.09	2.32	2.58

Persons 65 years and over	440	696	-	551	-	622	726	226	287	661	241	189	174
In households	440	696	-	551	-	622	726	226	287	661	241	189	174
Householder	294	455	-	369	-	417	484	139	197	307	120	107	95
Nonfamily householder	148	188	-	136	-	207	204	49	93	161	71	62	55
Living alone	141	179	-	128	-	197	183	45	87	154	63	61	52
Spouse	87	131	-	102	-	142	151	48	61	75	18	33	26
Other relatives	50	96	-	71	-	49	73	35	27	65	21	3	9
Nonrelatives	9	14	-	9	-	13	18	4	2	8	7	4	1
Inmate of institution	-	-	-	-	-	-	-	-	-	115	75	26	43
Other, in group quarters	-	-	-	-	-	1	-	-	-	91	-	16	-

FAMILY TYPE BY PRESENCE OF OWN CHILDREN

Families	1 514	2 173	-	1 716	-	1 262	1 366	1 095	903	1 443	642	130	360
With own children under 18 years	969	1 375	-	1 036	-	650	679	667	479	757	314	22	128
Number of own children under 18 years	2 276	3 341	-	2 501	-	1 429	1 429	1 317	1 002	1 411	547	32	180
Married-couple families	1 188	1 714	-	1 349	-	1 040	1 003	705	737	913	371	112	304
With own children under 18 years	800	1 161	-	901	-	549	522	426	402	443	173	17	112
Number of own children under 18 years	1 916	2 858	-	2 205	-	1 216	1 159	859	830	801	321	25	161
Female householder, no husband present	227	295	-	241	-	162	292	308	122	443	200	11	38
With own children under 18 years	144	166	-	116	-	89	134	202	65	288	127	5	13
Number of own children under 18 years	302	360	-	262	-	184	236	394	147	564	208	7	16

MARITAL STATUS

Male, 15 years and over	2 667	3 615	-	2 897	16	1 995	1 854	1 413	1 409	2 161	1 492	581	877
Single	893	1 165	-	977	16	627	546	483	450	825	693	335	384
Now married, except separated	1 515	2 025	-	1 699	-	1 150	1 097	738	811	1 011	467	154	389
Separated	94	154	-	53	-	41	50	65	38	101	102	23	20
Widowed	56	109	-	61	-	42	37	28	26	69	63	16	20
Divorced	109	162	-	107	-	135	124	99	84	155	167	53	64
Female, 15 years and over	2 311	3 260	-	2 511	17	2 000	2 137	1 643	1 282	2 371	1 192	822	668
Single	518	742	-	552	17	411	387	440	214	791	380	517	207
Now married, except separated	1 313	1 885	-	1 467	-	1 106	1 070	740	782	988	399	170	334
Separated	105	110	-	85	-	45	84	93	32	166	100	13	14
Widowed	241	340	-	274	-	276	388	119	141	354	156	70	41
Divorced	134	183	-	133	-	162	208	253	113	272	157	62	67

Table P-1. General Characteristics of Persons: 1980—Con.

(For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B.)

Census Tracts

Houston city (pt.), Harris County—Con.

AGE

Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract
0317.02	0317.03	0317.04	0318.01	0318.02	0318.03	0318.04	0319.01	0319.02	0320.01	0320.02	0320.03	0320.04	0320.05
Total persons	389	3 633	6 189	3 726	6 273	3 567	3 912	3 768	3 253	4 497	2 379	5 231	2 652
Under 5 years	27	249	485	330	551	330	372	437	327	488	291	409	225
5 to 9 years	19	323	573	364	638	352	339	262	251	372	201	305	156
10 to 14 years	28	379	653	331	762	456	390	185	199	307	137	252	125
15 to 19 years	31	505	743	403	857	435	477	276	201	325	195	369	161
20 to 24 years	30	337	583	363	543	285	443	529	415	469	404	720	261
25 to 34 years	68	431	924	646	864	500	613	843	720	872	499	1 205	539
35 to 44 years	47	484	772	460	875	444	549	373	263	359	235	492	197
45 to 54 years	51	503	693	354	608	349	372	257	322	322	145	485	209
55 to 64 years	39	249	432	252	332	279	223	303	259	451	118	448	323
65 to 74 years	42	131	228	164	175	95	94	208	211	333	100	367	314
75 years and over	7	42	103	59	68	42	40	95	150	199	54	179	140

3 and 4 years	10	87	196	133	211	118	139	161	123	181	105	120	81
16 years and over	308	2 582	4 329	2 633	4 116	2 328	2 723	2 855	2 450	3 271	1 709	4 212	2 120
18 years and over	294	2 375	4 022	2 464	3 759	2 147	2 525	2 759	2 383	3 126	1 636	4 092	2 058
21 years and over	279	2 103	3 609	2 232	3 311	1 935	2 246	2 529	2 196	2 928	1 512	3 778	1 934
60 years and over	64	282	505	348	374	281	231	455	477	773	197	754	630
62 years and over	56	238	440	293	317	209	182	385	425	663	177	665	566
Median	34.1	25.4	25.6	25.8	22.7	23.8	24.3	26.7	27.6	27.8	24.6	28.3	31.6

Female	186	1 873	3 247	1 940	3 312	1 868	2 044	1 854	1 629	2 276	1 155	2 578	1 377
Under 5 years	13	110	246	155	268	162	174	216	157	212	132	185	113
5 to 9 years	6	161	264	176	314	187	164	143	131	175	107	158	74
10 to 14 years	11	186	329	172	389	234	200	97	95	159	70	138	66
15 to 19 years	20	240	377	210	429	196	257	156	108	155	101	199	75
20 to 24 years	14	179	307	188	302	146	238	236	208	245	196	349	136
25 to 34 years	29	250	517	351	484	274	314	359	323	403	211	518	242
35 to 44 years	17	269	451	249	486	252	305	167	117	164	99	217	103
45 to 54 years	27	257	352	188	325	193	200	121	123	174	77	240	113
55 to 64 years	21	121	218	126	177	149	106	174	144	271	65	249	184
65 to 74 years	25	75	123	92	96	53	57	109	117	181	63	209	180
75 years and over	3	25	63	33	42	22	29	78	106	137	34	116	91

3 and 4 years	7	34	90	59	101	58	63	78	60	75	45	48	38
16 years and over	153	1 360	2 329	1 412	2 247	1 237	1 453	1 388	1 234	1 702	825	2 064	1 112
18 years and over	142	1 262	2 182	1 322	2 068	1 154	1 347	1 319	1 199	1 632	789	1 990	1 084
21 years and over	133	1 141	1 972	1 190	1 821	1 053	1 205	1 206	1 088	1 532	719	1 846	1 026
60 years and over	32	154	273	188	205	150	118	279	284	464	118	443	373
62 years and over	31	135	242	154	172	117	102	239	260	397	110	392	342
Median	35.5	27.0	27.3	26.5	24.0	25.3	24.8	26.4	28.0	29.2	24.2	28.7	33.5

HOUSEHOLD TYPE AND RELATIONSHIP

Total persons	389	3 633	6 189	3 726	6 273	3 567	3 912	3 768	3 253	4 497	2 379	5 231	2 652
In households	380	3 630	6 184	3 726	6 273	3 567	3 909	3 768	3 137	4 389	2 379	5 230	2 652
Householder	158	1 060	1 963	1 268	1 643	998	1 232	1 561	1 267	1 641	903	2 343	1 128
Family householder	100	872	1 488	927	1 416	823	931	991	821	1 119	604	1 325	755
Nonfamily householder	58	188	475	341	227	175	301	570	446	522	299	1 018	373
Living alone	53	167	408	282	193	149	262	492	384	463	254	836	316
Spouse	73	568	923	564	945	529	579	799	635	896	457	1 039	621
Other relatives	135	1 926	3 109	1 762	3 543	1 951	1 956	1 251	1 121	1 737	929	1 515	799
Nonrelatives	14	76	189	132	142	89	142	157	114	115	90	333	104
Inmate of institution	-	-	-	-	-	-	-	-	-	116	-	-	-
Other, in group quarters	9	3	5	-	-	-	3	-	-	-	-	1	-
Persons per household	2.41	3.42	3.15	2.94	3.82	3.57	3.17	2.41	2.48	2.67	2.63	2.23	2.35
Persons per family	3.08	3.86	3.71	3.51	4.17	4.01	3.72	3.07	3.14	3.35	3.29	2.93	2.88

Persons 65 years and over	49	173	331	223	243	137	134	303	361	533	154	546	454
In households	49	173	331	223	243	137	134	303	271	437	154	546	454
Householder	29	99	206	137	141	83	85	236	177	312	115	367	310
Nonfamily householder	9	23	74	44	47	27	39	126	68	146	62	165	139
Living alone	9	20	72	40	42	24	37	117	65	146	57	163	135
Spouse	18	35	62	57	29	22	24	42	62	85	29	141	113
Other relatives	2	36	53	26	64	32	21	17	30	40	9	34	31
Nonrelatives	-	3	10	3	9	-	4	8	2	-	1	4	-
Inmate of institution	-	-	-	-	-	-	-	-	-	90	-	-	-
Other, in group quarters	-	-	-	-	-	-	-	-	-	-	-	-	-

FAMILY TYPE BY PRESENCE OF OWN CHILDREN

Families	100	872	1 488	927	1 416	823	931	991	821	1 119	604	1 325	755
With own children under 18 years	42	522	883	552	930	509	590	495	426	607	358	569	300
Number of own children under 18 years	70	1 062	1 835	1 077	2 156	1 192	1 180	870	784	1 238	660	1 009	532
Married-couple families	73	568	923	564	945	529	579	799	635	896	457	1 039	621
With own children under 18 years	28	329	520	307	634	328	344	403	319	485	273	419	239
Number of own children under 18 years	47	650	1 073	627	1 484	793	688	715	603	1 006	516	775	445
Female householder, no husband present	18	251	466	310	388	250	294	118	144	172	92	205	107
With own children under 18 years	8	170	323	229	257	157	220	66	87	107	64	121	54
Number of own children under 18 years	16	374	687	422	583	351	451	114	148	211	116	192	77

MARITAL STATUS

Male, 15 years and over	159	1 266	2 070	1 264	1 981	1 144	1 305	1 484	1 230	1 600	904	2 168	1 020
Single	55	500	758	463	727	431	503	435	352	433	290	652	242
Now married, except separated	76	601	984	616	1 028	563	621	848	671	966	494	1 135	648
Separated	12	57	112	68	75	56	73	45	49	31	20	71	18
Widowed	3	32	66	26	36	24	22	33	42	53	12	46	26
Divorced	13	76	150	91	115	70	86	123	116	117	88	264	86
Female, 15 years and over	156	1 416	2 408	1 437	2 341	1 283	1 506	1 400	1 246	1 730	846	2 097	1 124
Single	43	456	708	419	708	359	507	209	216	263	166	448	155
Now married, except separated	77	593	991	602	1 018	564	615	823	667	952	476	1 078	641
Separated	11	92	186	129	168	107	136	30	52	54	32	85	22
Widowed	14	131	235	111	183	116	111	185	174	289	82	236	183
Divorced	11	144	288	176	264	139	137	153	137	172	90	250	123

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B.]

Houston city (pt.). Harris County—Con

Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract	Tract
0321.01	0321.02	0321.03	0321.99	0322.01*	0322.02	0322.03	0322.04	0323.01	0323.02	0324.01	0324.02	0324.03	0324.04
8 846	2 170	2 294	108	4	4 220	3 215	2 704	5 109	3 993	3 314	9 170	53	8
856	258	261	-	...	404	259	129	484	413	196	557	2	3
703	226	241	-	...	394	260	163	417	274	119	403	3	2
571	179	246	-	...	356	279	160	309	231	92	335	2	2
738	217	268	8	...	319	271	331	392	337	191	547	4	3
1 634	220	206	34	...	409	279	217	540	677	543	1 975	3	3
2 021	302	343	26	...	815	575	345	968	882	684	2 522	7	7
740	198	210	10	...	463	305	250	468	436	246	838	7	3
533	205	212	20	...	412	359	516	451	385	341	780	3	3
526	182	151	9	...	409	366	388	546	244	435	724	12	8
360	112	112	1	...	176	172	137	377	87	235	374	8	2
164	71	44	-	...	63	90	68	157	27	232	115	8	1

300	106	102	—	...	156	99	61	190	151	50	162	2
6 589	1 461	1 496	108	...	2 995	2 354	2 200	3 825	3 037	2 885	7 804	46
6 526	1 370	1 391	106	...	2 853	2 251	2 062	3 663	2 916	2 830	7 625	45
5 722	1 245	1 229	93	...	2 681	2 089	1 865	3 425	2 631	2 614	7 045	42
775	262	214	4	...	409	411	338	783	214	673	800	20
662	234	189	3	...	322	340	280	672	166	583	653	18
24.8	24.7	22.8	29.5	...	27.2	28.6	35.4	28.7	25.5	31.4	26.9	37.8

4 144	1 033	1 083	18	...	2 124	1 638	1 333	2 589	1 924	1 746	4 467	18
419	124	122	-	...	204	131	59	242	207	98	293	1
360	106	119	-	...	182	120	85	219	147	65	212	1
388	76	118	-	...	173	131	78	150	120	46	161	-
1004	104	115	4	...	155	130	148	179	177	104	321	1
723	111	83	3	...	225	83	89	286	313	259	1 004	4
810	132	158	3	...	396	266	156	374	1 070	1 070	347	3
298	99	108	1	...	216	50	138	223	206	123	347	4
286	102	101	-	...	224	202	281	228	193	193	390	1
272	81	77	2	...	209	183	180	303	115	239	381	2
203	60	50	-	...	97	102	72	221	52	129	209	4
116	38	32	-	...	43	64	47	106	20	180	71	1

142	53	49	-	...	78	43	25	99	82	25	89	1
3 040	702	705	18	...	1 528	1 217	1 086	1 940	1 430	1 525	3 765	16
2 894	659	651	16	...	1 460	1 177	1 026	1 877	1 367	1 495	3 658	16
2 588	602	588	12	...	1 376	1 098	943	1 761	1 226	1 369	3 313	15
450	137	111	2	...	225	243	180	455	115	414	440	7
390	121	96	2	...	178	208	155	400	95	362	361	7
24.4	24.8	23.7	22.5	...	27.3	28.7	40.0	29.1	25.0	34.5	26.2	37.0

8 844	2 170	2 294	108	4	4 220	3 215	2 704	5 109	3 993	3 314	9 170	53
8 811	2 170	2 284	-	...	4 220	3 215	2 704	5 109	3 993	3 118	9 170	50
3 441	703	598	-	...	1 353	1 127	934	1 942	1 584	1 524	4 667	28
1 998	460	501	-	...	1 137	875	791	1 339	1 021	846	2 340	11
1 443	243	97	-	...	216	252	143	603	563	678	2 327	17
1 137	213	79	-	...	180	229	117	523	416	553	1 937	16
1 560	330	407	-	...	998	760	713	1 111	790	660	1 906	8
3 310	1 048	1 167	-	...	1 756	1 268	1 000	1 878	1 345	757	2 073	11
500	89	112	-	...	113	60	57	178	274	177	524	3
-	-	-	-	...	-	-	-	-	-	196	-	-
35	-	10	108	...	-	-	-	-	-	-	-	3

2.56	3.09	3.82	-	...	3.12	2.85	2.90	2.63	2.52	2.05	1.96	1.79
3.44	4.00	4.14	-	...	3.42	3.32	3.17	3.23	3.09	2.67	2.70	2.73
524	183	154	1	...	239	262	205	534	114	467	489	10
523	183	156	-	...	239	262	205	534	114	292	489	10
349	135	101	-	...	159	180	118	372	67	191	318	6
152	75	36	-	...	56	84	32	172	31	78	129	2
146	69	32	-	...	55	82	31	170	31	75	123	2
102	27	33	-	...	49	61	61	116	24	69	115	4
66	10	15	-	...	27	20	21	45	22	31	48	-
6	11	7	-	...	4	1	5	1	1	1	8	-
-	-	-	-	...	-	-	-	-	-	175	-	-
1	-	-	1	...	-	-	-	-	-	-	-	-

1 998	440	501	-	...	1 137	673	791	1 339	1 021	846	2 340	11
1 046	261	299	-	...	653	431	354	641	572	291	880	3
2 249	648	772	-	...	1 239	881	600	1 302	954	442	1 396	7
1 540	330	407	-	...	998	760	713	1 111	790	660	1 906	8
837	203	254	-	...	574	372	311	539	433	201	638	2
1 856	513	664	-	...	1 110	779	522	1 115	744	317	1 039	4
296	98	35	-	...	105	94	52	165	165	144	316	2
171	48	28	-	...	59	51	31	86	113	81	206	1
321	118	76	-	...	98	89	55	166	173	113	302	3

3 430	780	822	90	...	1 501	1 161	1 141	1 921	1 435	1 370	4 074	30
1 378	246	282	38	...	333	246	329	501	521	422	1 425	9
1 705	389	470	43	...	1 034	784	732	1 171	846	712	2 034	9
149	36			...	22	20		44	80	27	134	4
53	37	19	-	...	20	20	17	31	10	51	48	1
335	72	34	6	...	92	91	46	174	168	158	433	7
3 096	727	724	18	...	1 545	1 256	1 111	1 978	1 450	1 537	3 801	16
726	151	152	17	...	233	171	219	306	276	307	998	3
1 659	357	438	-	...	1 032	785	730	1 153	812	698	1 965	8
115	51	26	-	...	30	21	20	45	74	48	112	1
272	121	73	-	...	149	155	82	269	83	286	250	1
324	47	35	1	...	121	124	60	205	205	198	476	3

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts

AGE

Total persons	4 666	2 306	6 245	6 637	6 123	4 126	7 271	4 918	3 840	3	4 945	4 388	20
Under 5 years	230	204	618	496	474	380	666	393	277	...	366	342	-
5 to 9 years	164	200	646	495	618	422	767	474	374	...	419	404	-
10 to 14 years	113	185	529	587	752	491	930	554	435	...	457	426	-
15 to 19 years	292	201	474	651	920	538	1 042	655	459	...	569	468	1
20 to 24 years	889	241	526	523	520	345	587	424	308	...	420	433	-
25 to 34 years	1 078	412	1 300	1 107	763	618	920	646	536	...	616	532	2
35 to 44 years	429	226	665	727	923	593	892	608	420	...	441	369	1
45 to 54 years	476	253	460	689	660	390	660	480	422	...	504	441	4
55 to 64 years	628	214	460	757	329	227	414	445	356	...	499	493	1
65 to 74 years	264	121	344	421	125	88	246	178	170	...	438	332	-
75 years and over	103	49	223	184	39	34	147	61	83	...	216	148	11
3 and 4 years	74	75	252	182	188	149	259	145	103	...	145	123	-
16 years and over	4 109	1 676	4 340	4 931	4 078	2 710	4 698	3 343	2 662	...	3 587	3 123	20
18 years and over	4 023	1 614	4 144	4 642	3 693	2 479	4 256	3 076	2 484	...	3 353	2 952	20
21 years and over	3 720	1 468	3 880	4 309	3 217	2 209	3 713	2 731	2 232	...	3 034	2 647	19
60 years and over	628	273	774	945	292	191	560	438	394	...	896	702	11
62 years and over	512	228	699	798	245	162	473	346	330	...	785	619	11
Median	29.4	27.3	27.5	30.0	22.5	23.3	21.6	24.4	26.1	...	28.2	26.6	78.0

Female	2 276	1 108	3 226	3 344	3 238	2 162	3 895	2 617	2 063	...	2 685	2 346	7
Under 5 years	105	86	300	241	228	211	319	202	140	...	185	167	-
5 to 9 years	85	91	331	242	310	201	381	250	196	...	204	216	-
10 to 14 years	57	94	261	306	373	242	444	276	234	...	228	203	-
15 to 19 years	167	95	223	312	459	265	521	319	223	...	317	240	1
20 to 24 years	428	109	248	241	266	171	302	214	169	...	220	215	-
25 to 34 years	459	188	662	569	446	349	556	356	302	...	328	300	-
35 to 44 years	195	102	343	346	534	332	541	353	244	...	248	202	-
45 to 54 years	259	137	240	359	369	209	359	273	234	...	287	262	-
55 to 64 years	298	105	238	401	154	106	238	236	185	...	287	273	-
65 to 74 years	148	69	205	208	71	53	136	100	87	...	259	197	-
75 years and over	75	32	175	119	28	23	98	38	49	...	122	91	6
3 and 4 years	32	32	116	90	97	78	117	68	53	...	72	60	-
16 years and over	2 002	819	2 283	2 491	2 225	1 449	2 643	1 813	1 455	...	2 001	1 733	7
18 years and over	1 952	787	2 189	2 347	2 040	1 333	2 418	1 688	1 360	...	1 877	1 640	7
21 years and over	1 778	720	2 059	2 194	1 789	1 202	2 147	1 510	1 241	...	1 698	1 484	6
60 years and over	347	153	490	502	160	104	336	238	206	...	516	406	6
62 years and over	289	132	451	433	139	91	286	189	173	...	456	361	6
Median	29.6	28.5	28.6	30.7	24.6	24.7	24.6	26.3	27.4	...	29.7	29.1	81.2

HOUSEHOLD TYPE AND RELATIONSHIP

Total persons	4 666	2 306	6 245	6 637	6 123	4 126	7 271	4 918	3 840	3	4 945	4 388	20
In households	4 664	2 306	6 148	6 620	6 123	4 126	7 171	4 918	3 840	...	4 945	4 388	20
Householder	2 374	766	2 109	2 169	1 533	1 070	1 946	1 343	1 134	...	1 635	1 428	11
Family householder	1 273	594	1 557	1 773	1 362	947	1 644	1 150	931	...	1 189	1 049	7
Nonfamily householder	1 101	172	552	396	171	123	302	193	203	...	446	379	4
Living alone	932	146	496	333	138	103	265	170	183	...	397	321	3
Spouse	1 054	505	1 276	1 495	929	678	915	746	599	...	656	547	6
Other relatives	1 017	965	2 638	2 816	3 562	2 292	4 179	2 730	2 030	...	2 495	2 246	2
Nonrelatives	219	70	125	140	99	86	131	99	77	...	159	167	1
Inmate of institution	-	-	97	-	-	-	97	-	-	...	-	-	-
Other, in group quarters	2	-	-	17	-	-	3	-	-	...	-	-	-
Persons per household	1.96	3.01	2.92	3.05	3.99	3.86	3.68	3.66	3.39	...	3.02	3.07	1.82
Persons per family	2.63	3.47	3.51	3.43	4.30	4.14	4.10	4.02	3.82	...	3.65	3.66	2.14
Persons 65 years and over	367	170	567	608	164	122	393	239	253	...	654	480	11
In households	367	170	482	602	164	122	319	239	253	...	654	480	11
Householder	231	115	344	375	95	57	199	151	165	...	460	337	5
Nonfamily householder	92	50	202	106	22	16	75	40	63	...	177	126	-
Living alone	89	49	200	98	18	14	70	39	59	...	165	112	-
Spouse	90	37	81	148	25	20	58	39	42	...	117	77	5
Other relatives	44	18	56	74	42	45	54	47	41	...	57	57	1
Nonrelatives	2	-	1	5	2	-	8	2	5	...	20	9	-
Inmate of institution	-	-	85	-	-	-	74	-	-	...	-	-	-
Other, in group quarters	-	-	-	3	-	-	-	-	-	...	-	-	-

FAMILY TYPE BY PRESENCE OF OWN CHILDREN

Families	1 273	594	1 557	1 773	1 362	947	1 644	1 150	931	...	1 189	1 049	7
With own children under 18 years	373	310	948	913	897	616	1 102	652	541	...	543	492	-
Number of own children under 18 years	571	631	1 949	1 810	1 960	1 357	2 570	1 451	1 146	...	1 238	1 088	-
Married-couple families	1 054	505	1 276	1 495	929	678	915	746	599	...	656	547	6
With own children under 18 years	279	273	767	760	624	452	597	415	332	...	283	229	-
Number of own children under 18 years	457	569	1 607	1 526	1 380	1 001	1 357	913	692	...	612	507	-
Female householder, no husband present	144	58	226	201	386	225	629	340	284	...	441	409	-
With own children under 18 years	71	29	153	122	252	144	451	216	187	...	236	225	-
Number of own children under 18 years	89	49	297	223	539	324	1 075	500	407	...	576	515	-

MARITAL STATUS

Male, 15 years and over	2 130	880	2 118	2 504	1 952	1 325	2 157	1 608	1 261	...	1 635	1 436	13
Single	685	242	543	717	787	473	922	622	441	...	589	544	4
Now married, except separated	1 115	534	1 329	1 550	979	722	978	793	637	...	707	604	6
Separated	71	22	63	52	72	48	88	67	55	...	100	98	1
Widowed	31	20	45	35	20	13	52	31	36	...	83	68	-
Divorced	228	62	138	150	94	69	117	95	92	...	156	122	2
Female, 15 years and over	2 029	837	2 334	2 555	2 327	1 508	2 751	1 889	1 493	...	2 068	1 780	7
Single	473	147	374	517	778	445	922	539	437	...	621	496	-
Now married, except separated	1 101	529	1 315	1 538	975	718	976	788	631	...	719	602	6
Separated	50	16	100	64	142	101	266	141	76	...	193	172	-
Widowed	173	90	334	255	157	98	290	193	144	...	348	294	1
Divorced	232	55	209	181	275	146	297	228	205	...	187	216	-

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts		Houston city (pt.), Harris County—Con.												
		Tract 0330.02	Tract 0331	Tract 0332	Tract 0333	Tract 0334	Tract 0335.01	Tract 0335.02	Tract 0335.03	Tract 0336	Tract 0338	Tract 0339.01	Tract 0339.02	Tract 0339.03
AGE														
Total persons		3 987	5 594	9 009	3 496	6 499	4 499	6 095	3 907	3 770	3 137	-	6 325	2 073
Under 5 years		346	166	882	356	699	468	640	439	494	364	-	355	271
5 to 9 years		398	79	1 079	399	667	490	794	452	478	327	-	464	297
10 to 14 years		339	36	1 094	285	581	552	659	406	365	256	-	595	260
15 to 19 years		352	238	988	339	596	496	582	360	244	244	-	837	236
20 to 24 years		353	1 748	674	297	696	397	382	267	310	288	-	666	200
25 to 34 years		591	2 285	1 835	694	1 375	858	1 275	890	1 023	715	-	653	284
35 to 44 years		340	441	1 342	505	858	602	854	507	451	341	-	606	178
45 to 54 years		389	249	707	276	547	370	454	290	197	235	-	1 026	131
55 to 64 years		456	131	263	151	320	181	246	179	125	181	-	743	99
65 to 74 years		300	60	115	72	124	56	111	86	61	135	-	278	74
75 years and over		123	161	30	22	36	29	98	31	22	51	-	102	43
3 and 4 years		129	49	344	124	261	183	287	191	206	142	-	138	119
16 years and over		2 829	5 302	5 711	2 281	4 440	2 874	3 891	2 525	2 366	2 130	-	4 743	1 204
18 years and over		2 689	5 261	5 320	2 137	4 200	2 667	3 630	2 364	2 267	2 038	-	4 415	1 098
21 years and over		2 482	4 847	4 839	1 961	3 833	2 432	3 326	2 202	2 147	1 906	-	3 906	966
60 years and over		629	285	237	142	287	155	292	195	132	263	-	651	152
62 years and over		543	250	175	120	221	124	252	153	110	222	-	521	137
Median		28.1	26.4	23.7	24.5	25.1	23.3	24.9	25.4	24.9	26.3	-	27.9	19.4
Female		2 146	2 676	4 580	1 798	3 191	2 248	3 140	1 947	1 853	1 511	-	3 333	1 168
Under 5 years		182	87	409	188	320	209	322	218	212	174	-	177	118
5 to 9 years		194	48	537	197	332	261	401	220	195	160	-	216	139
10 to 14 years		179	15	546	177	277	270	331	204	175	123	-	301	126
15 to 19 years		172	140	461	170	290	225	289	168	135	114	-	407	123
20 to 24 years		197	850	358	158	335	208	205	135	163	135	-	367	117
25 to 34 years		305	1 024	1 021	372	708	445	689	458	544	343	-	346	198
35 to 44 years		199	167	498	271	427	311	428	249	226	153	-	360	122
45 to 54 years		225	97	344	134	279	180	227	134	87	115	-	586	80
55 to 64 years		259	64	128	73	149	87	119	94	71	96	-	365	66
65 to 74 years		162	33	59	39	57	34	67	48	34	69	-	145	42
75 years and over		72	151	19	19	17	18	62	19	11	29	-	63	32
3 and 4 years		70	18	156	69	107	89	141	94	89	63	-	68	54
16 years and over		1 558	2 521	2 977	1 197	2 206	1 457	2 026	1 261	1 230	1 025	-	2 562	761
18 years and over		1 491	2 501	2 795	1 121	2 080	1 368	1 907	1 195	1 183	980	-	2 404	704
21 years and over		1 379	2 277	2 562	1 036	1 922	1 248	1 744	1 114	1 114	926	-	2 139	637
60 years and over		343	215	118	80	134	80	172	101	75	136	-	337	94
62 years and over		296	201	94	72	107	66	152	88	64	113	-	274	83
Median		29.4	26.0	24.8	25.3	25.5	24.2	25.6	25.6	25.8	26.5	-	29.9	23.8
HOUSEHOLD TYPE AND RELATIONSHIP														
Total persons		3 987	5 594	9 009	3 496	6 499	4 499	6 095	3 907	3 770	3 137	-	6 325	2 073
In households		3 987	5 439	9 007	3 496	6 499	4 499	5 925	3 907	3 765	3 124	-	6 325	2 032
Householder		1 385	3 374	2 488	1 036	2 114	1 213	1 629	1 122	1 127	1 022	-	1 776	599
Family householder		1 021	1 070	2 211	876	1 627	1 056	1 479	980	972	796	-	1 572	488
Nonfamily householder		364	2 304	277	160	487	157	150	142	155	226	-	204	111
Living alone		327	1 775	234	132	384	120	109	107	125	178	-	190	103
Spouse		596	790	1 663	661	1 347	855	1 201	842	791	663	-	1 118	136
Other relatives		1 882	607	4 671	1 719	2 802	2 309	2 963	1 850	1 748	1 291	-	3 353	1 265
Nonrelatives		124	668	185	80	236	122	132	93	99	148	-	78	32
Inmate of institution		-	153	-	-	-	-	170	-	-	-	-	-	41
Other, in group quarters		-	2	2	-	-	-	-	-	5	13	-	-	-
Persons per household		2.88	1.61	3.62	3.37	3.07	3.71	3.64	3.48	3.34	3.06	-	3.56	3.39
Persons per family		3.43	2.31	3.86	3.72	3.55	4.00	3.82	3.75	3.61	3.45	-	3.84	3.87
Persons 65 years and over		423	221	145	94	160	85	209	117	83	186	-	380	117
In households		423	66	143	94	160	85	148	117	83	185	-	380	83
Householder		297	46	67	51	104	46	76	60	41	111	-	229	63
Nonfamily householder		114	30	18	20	33	14	24	16	18	33	-	52	27
Living alone		108	28	16	20	30	14	21	15	18	32	-	49	27
Spouse		83	9	23	18	31	18	25	31	11	44	-	75	5
Other relatives		35	8	51	24	23	21	37	23	29	25	-	71	15
Nonrelatives		8	3	2	1	2	-	10	3	2	5	-	5	-
Inmate of institution		-	153	-	-	-	-	61	-	-	-	-	-	34
Other, in group quarters		-	2	2	-	-	-	-	-	-	1	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN														
Families		1 021	1 070	2 211	876	1 627	1 056	1 479	980	972	796	-	1 572	488
With own children under 18 years		489	211	1 625	636	1 086	767	1 047	690	704	490	-	741	370
Number of own children under 18 years		1 011	279	3 380	1 252	2 089	1 656	2 171	1 431	1 399	989	-	1 462	841
Married-couple families		596	790	1 663	661	1 347	855	1 201	842	791	663	-	1 118	136
With own children under 18 years		253	132	1 222	478	891	617	858	596	579	408	-	520	96
Number of own children under 18 years		524	178	2 581	965	1 748	1 345	1 807	1 265	1 178	845	-	1 017	197
Female householder, no husband present		367	167	460	175	214	170	216	109	150	90	-	365	326
With own children under 18 years		213	62	357	136	161	130	162	77	112	61	-	196	261
Number of own children under 18 years		452	79	718	257	283	270	317	137	201	108	-	402	617
MARITAL STATUS														
Male, 15 years and over		1 313	2 787	2 846	1 120	2 290	1 481	1 916	1 305	1 162	1 136	-	2 272	465
Single		415	1 440	897	329	662	462	512	334	249	290	-	836	220
Now married, except separated		634	903	1 726	683	1 398	890	1 244	871	820	694	-	1 190	149
Separated		70	87	63	23	43	33	40	26	22	33	-	74	39
Widowed		65	20	25	12	41	14	33	10	7	18	-	71	17
Divorced		129	337	155	73	146	82	87	64	64	101	-	101	40
Female, 15 years and over		1 591	2 526	3 088	1 236	2 262	1 508	2 086	1 305	1 271	1 054	-	2 639	780
Single		601	1 228	763	297	506	333	440	232	211	159	-	818	289
Now married, except separated		426	836	1 732	681	1 387	889	1 252	866	828	694	-	1 203	155
Separated		149	76	107	55	86	73	71	42	41	38	-	144	119
Widowed		241	162	128	58	107	71	145	55	63	70	-	242	102
Divorced		174	224	358	145	176	142	178	110	128	93	-	232	115

Table P-1. General Characteristics of Persons: 1980—Con.

(For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B)

Census Tracts

AGE

	Tract 0340	Tract 0341*	Tract 0342	Tract 0343.01	Tract 0343.02	Tract 0344	Tract 0345.01	Tract 0345.02	Tract 0346	Tract 0347.01	Tract 0347.02	Tract 0347.03	Tract 0347.04
Total persons	8 100	26	891	5 861	12 343	2 011	5 656	2 659	4 047	5 684	4 761	2 170	6 455
Under 5 years	505	2	86	484	1 719	218	615	230	349	454	407	174	476
5 to 9 years	665	—	70	636	1 576	134	548	218	256	466	304	213	426
10 to 14 years	894	—	73	729	1 166	141	417	265	206	495	295	215	512
15 to 19 years	1 141	1	60	820	952	140	358	279	345	571	517	184	658
20 to 24 years	740	2	81	500	1 666	241	589	245	761	656	916	189	831
25 to 34 years	927	7	134	753	3 169	435	1 239	489	984	1 019	989	380	1 221
35 to 44 years	1 173	3	77	817	1 230	176	641	365	431	614	480	278	696
45 to 54 years	1 181	2	100	615	539	162	542	322	330	697	499	287	869
55 to 64 years	585	5	117	342	212	193	429	146	199	503	255	164	480
65 to 74 years	203	3	66	118	83	117	213	72	124	151	71	54	209
75 years and over	86	1	27	47	31	54	65	28	62	58	28	32	77
3 and 4 years	184	1	32	204	674	85	236	88	116	181	152	78	174
16 years and over	5 788	24	651	3 842	7 689	1 492	4 014	1 880	3 191	4 154	3 687	1 532	4 934
18 years and over	5 296	23	628	3 492	7 347	1 449	3 864	1 758	3 074	3 918	3 497	1 454	4 676
21 years and over	4 723	23	578	3 087	6 676	1 336	3 617	1 626	2 751	3 585	3 041	1 337	4 209
60 years and over	525	4	151	292	194	244	467	167	276	356	202	148	466
62 years and over	403	4	124	227	158	218	373	138	234	294	153	120	384
Median	25.9	36.0	29.8	22.4	22.6	27.3	27.3	26.6	25.7	26.5	24.6	27.6	27.0

Female

Under 5 years	4 172	15	442	3 110	6 443	1 003	2 875	1 361	1 940	2 807	2 316	1 079	3 217
5 to 9 years	261	1	42	232	841	98	309	108	169	214	196	81	231
10 to 14 years	352	—	32	319	769	59	276	114	129	232	162	98	233
15 to 19 years	456	—	35	362	589	66	206	132	106	247	144	104	257
20 to 24 years	532	1	29	434	548	84	194	151	195	269	275	97	334
25 to 34 years	363	—	43	258	974	131	316	130	373	312	436	94	383
35 to 44 years	498	6	66	449	1 699	196	608	238	400	495	427	186	576
45 to 54 years	674	1	36	490	611	80	302	204	196	315	258	146	357
55 to 64 years	624	1	42	316	254	85	278	145	162	364	238	139	444
65 to 74 years	264	2	63	151	96	103	228	82	102	252	123	84	234
75 years and over	95	2	39	63	46	69	116	40	64	70	38	28	114
3 and 4 years	94	1	15	111	322	39	124	43	58	79	74	38	83
16 years and over	2 998	14	329	2 099	4 137	762	2 046	971	1 509	2 063	1 777	776	2 436
18 years and over	2 762	13	318	1 917	3 952	739	1 969	908	1 439	1 959	1 679	734	2 311
21 years and over	2 491	13	293	1 711	3 532	676	1 844	836	1 259	1 784	1 436	681	2 076
60 years and over	247	3	83	151	102	139	270	96	158	182	107	82	258
62 years and over	201	3	68	125	83	126	215	87	132	152	86	65	216
Median	27.0	34.5	29.8	24.1	22.7	27.4	27.1	26.6	25.0	27.0	24.3	27.8	26.9

HOUSEHOLD TYPE AND RELATIONSHIP

Total persons	8 100	26	891	5 861	12 343	2 011	5 656	2 659	4 047	5 684	4 761	2 170	6 455
In households	8 100	26	891	5 768	12 343	2 011	5 656	2 659	4 047	5 684	4 761	2 170	6 455
Householder	2 255	13	312	1 541	3 932	733	2 003	824	1 758	1 915	1 935	674	2 339
Family householder	2 013	4	239	1 366	3 227	550	1 590	739	1 035	1 558	1 250	594	1 769
Nonfamily householder	242	9	73	175	705	183	413	85	723	357	685	80	570
Living alone	221	7	61	161	586	153	347	65	569	288	530	61	444
Spouse	1 549	4	206	846	2 074	475	1 344	642	849	1 328	986	508	1 529
Other relatives	4 216	6	351	3 311	5 976	731	2 144	1 142	1 218	2 295	1 590	940	2 391
Nonrelatives	80	3	22	70	361	72	165	51	222	146	250	48	196
Inmate of institution	—	—	—	93	—	—	—	—	—	—	—	—	—
Other, in group quarters	—	—	—	—	—	—	—	—	—	—	—	—	—
Persons per household	3.59	2.00	2.86	3.74	3.14	2.74	2.82	3.23	2.30	2.97	2.46	3.22	2.76
Persons per family	3.86	3.50	3.33	4.04	3.49	3.19	3.19	3.41	3.00	3.33	3.06	3.44	3.22

Persons 65 years and over	289	4	93	165	114	171	278	100	186	209	99	86	286
In households	289	4	93	165	114	171	278	100	186	209	99	86	286
Householder	168	4	59	86	51	118	189	55	113	116	61	46	165
Nonfamily householder	38	4	30	23	9	52	90	17	46	34	24	20	52
Living alone	38	4	28	22	7	52	87	13	45	34	23	18	51
Spouse	55	—	18	24	20	38	55	24	44	47	23	16	74
Other relatives	63	—	13	51	38	14	32	20	25	43	14	21	43
Nonrelatives	3	—	3	4	5	1	2	1	4	3	1	3	4
Inmate of institution	—	—	—	—	—	—	—	—	—	—	—	—	—
Other, in group quarters	—	—	—	—	—	—	—	—	—	—	—	—	—

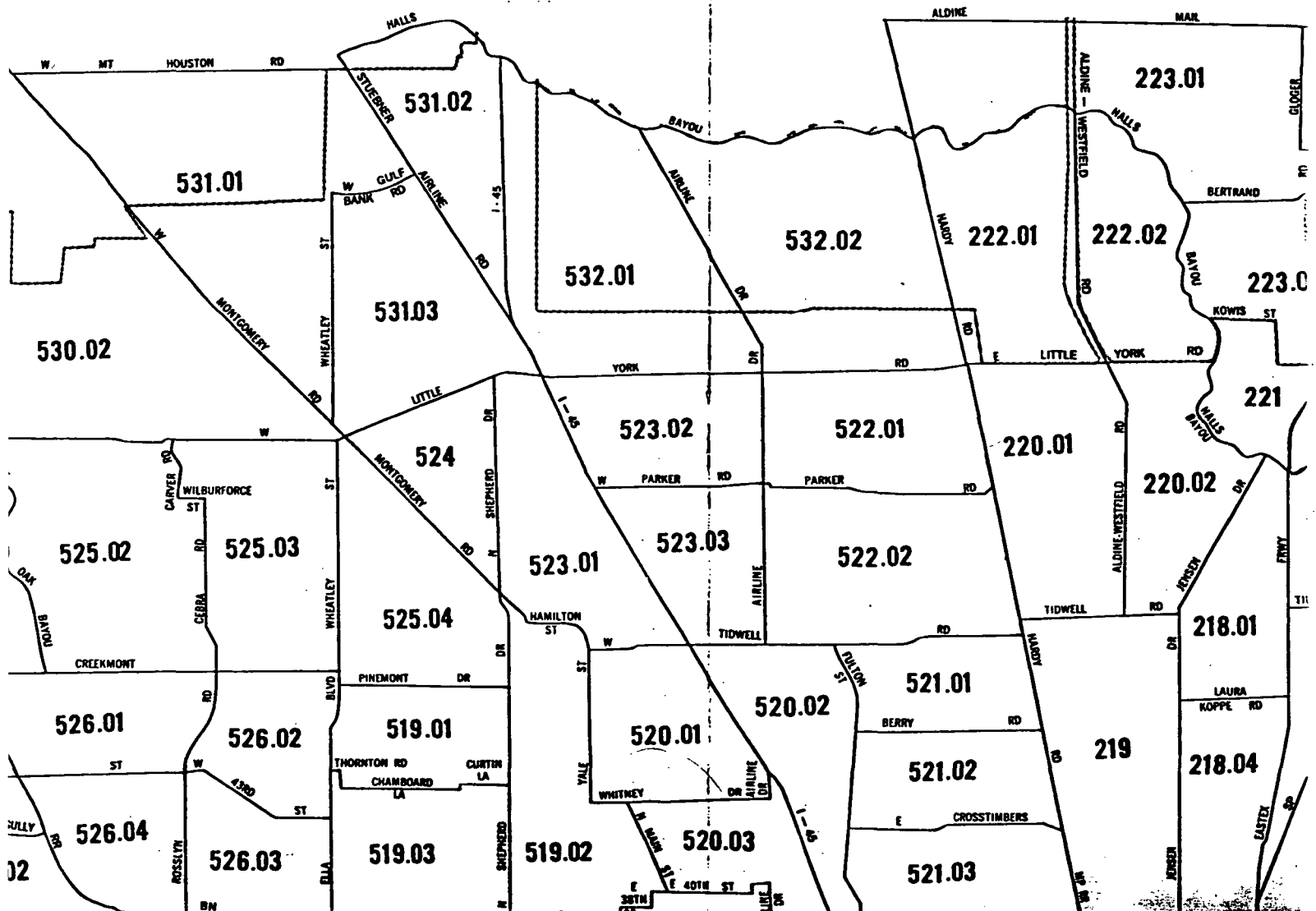
FAMILY TYPE BY PRESENCE OF OWN CHILDREN

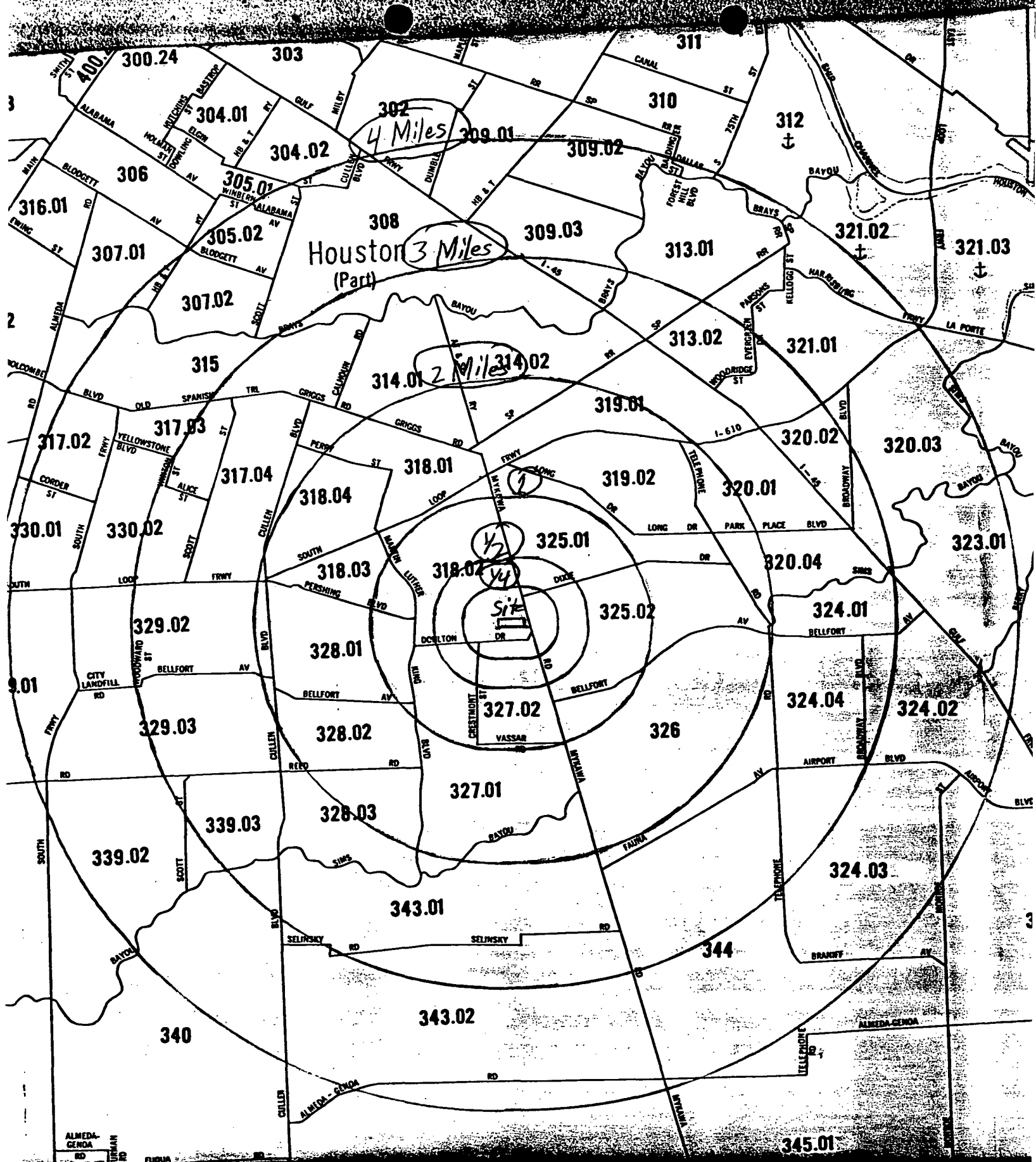
Families	2 013	4	239	1 366	3 227	550	1 590	739	1 035	1 558	1 250	594	1 769
With own children under 18 years	1 237	1	111	926	2 478	273	915	460	497	900	691	349	938
Number of own children under 18 years	2 432	2	227	2 062	4 628	514	1 679	849	881	1 623	1 149	651	1 652
Married-couple families	1 549	4	206	846	2 074	475	1 344	642	849	1 328	986	508	1 529
With own children under 18 years	936	1	98	547	1 595	239	735	401	393	745	511	299	791
Number of own children under 18 years	1 864	2	205	1 214	3 063	444	1 359	750	722	1 386	989	571	1 431
Female householder, no husband present	379	—	22	482	904	57	196	68	135	179	191	69	175
With own children under 18 years	258	—	11	360	776	29	155	45	88	134	152	44	119
Number of own children under 18 years	488	—	19	808	1 383	59	276	74	139	201	218	72	181

MARITAL STATUS

Male, 15 years and over	2 933	10	329	1 815	3 638	738	1 992	939	1 700	2 155	1 941	772	2 545
Single	1 033	2	69	686	1 063	174	420	227	523	596	641	181	741
Now married, except separated	1 632	5	213	925	2 159	491	1 395	657	892	1 371	1 018	529	1 566
Separated	89	—	6	71	159	16	30	11	36	35	61	14	41
Widowed	60	—	15	24	25	9	29	8	23	23	12	9	18
Divorced	119	3	26	109	232	48	118	36	226	130	209	39	179
Female, 15 years and over	3 103	14	333	2 197	4 244	780	2 084	1 007	1 536	2 114	1 814	796	2 496
Single	880	4	48	732	1 170	111	304	194	323	380	423	117	516
Now married, except separated	1 617	6	210	903	2 150	489	1 377	659	874	1 361	1 009	526	1 567
Separated	126	—	9	164	310	20	61	15	45	45	61	20	39
Widowed	225	3	38	127	147	74	157	62	83	112	70	60	153
Divorced	255	1	28	271	467	86	185	77	211	216	251	73	221

STANDARD METROPOLITAN STATISTICAL AREA





AID Warehouse - P.A.

①

Air and On-site Population Targets Worksheet

Distance From Site (Miles)	Census Tract #	Estimated % of Tract Between Site Distances	Population Between Site Distances	Total Population
On-site	—	—	0	0
0 → 1/4	318.02	20	1,255	
	325.02	5	312	
	327.02	15	619	2,186
0 → 1/4				2,186
1/4 → 1/2	318.02	20	1,255	
	325.01	10	231	
	327.01	15	918	
	327.02	25	1,032	
	325.02	10	625	4,061
0 → 1/2				6,247
1/2 → 1	318.02	50	3,136	
	318.03	25	892	
	325.01	55	1,268	
	325.02	30	1,873	
	326	10	664	
	327.01	50	3,062	
	327.02	60	2,475	
	328.01	20	1,454	14,824
0 → 1				21,071
1 → 2	314.01	50	2,160	
	314.02	50	1,832	
	318.01	85	3,167	
	318.02	10	627	

Air and On-site Population Targets Worksheet

Distance From Site (Miles)	Census Tract #	Estimated % of Tract Between Site Distances	Population Between Site Distances	Total Population
1 → 2 (cont)	318.03	75	2,675	
	318.04	90	3,521	
	319.01	50	1,884	
	319.02	100	3,253	
	320.01	30	1,349	
	320.04	20	530	
	325.01	35	807	
	325.02	55	3,435	
	326	70	4,646	
	327.01	35	2,143	
	328.01	80	5,817	
	328.02	95	4,672	
	328.03	40	1,536	
	329.02	5	247	
	343.01	15	879	45,180
0 → 2				66,251
2 → 3	308	35	2,601	
	309.03	15	467	
	313.01	20	1,072	
	313.02	60	3,259	
	314.01	50	2,160	
	314.02	50	1,832	
	315	35	2,136	
	317.03	55	1,998	
	317.04	100	6,189	

Air and On-site Population Targets Worksheet

Distance From Site (Miles)	Census Tract #	Estimated % Of Tract Between Site Distances	Population Between Site Distances	Total Population
2 → 3 (cont)	318.01	15	559	
	318.04	10	391	
	319.01	50	1,884	
	320.01	70	3,148	
	320.02	90	2,141	
	320.03	10	523	
	320.04	80	2,122	
	321.01	40	3,538	
	324.01	90	2,983	
	324.02	10	917	
	324.03	20	11	
	324.04	100	4,666	
	326	20	1,327	
	328.02	5	246	
	328.03	60	2,304	
	329.02	65	3,214	
	329.03	60	2,633	
	330.02	40	1,595	
	331.02	40		
	339.03	85	1,762	
	340	5	405	
	343.01	85	4,982	
	343.02	15	1,851	
	344	40	804	65,720
0 → 3				131,971

Air and On-site Population Targets Worksheet

Distance From Site (Miles)	Census Tract #	Estimated % Of Tract Between Site Distances	Population Between Site Distances	Total Population
3 → 4	302	15	998	
	304.02	10	521	
	305.01	15	637	
	305.02	85	3,613	
	307.01	10	578	
	307.02	100	4,900	
	308	65	4,830	
	309.01	25	1,512	
	309.02	60	1,852	
	309.03	85	2,643	
	312	5	390	
	313.01	80	4,287	
	313.02	40	2,173	
	315	55	3,356	
	317.02	80	311	
	317.03	45	1,635	
	320.02	10	238	
	320.03	85	4,446	
	321.01	60	5,308	
	321.02	25	543	
	323.01	80	4,087	
	323.02	10	399	
	324.01	10	331	
	324.02	70	6,419	
	324.03	70	37	

Air and On-site Population Targets Worksheet

[illegible]

Ref. 3

CERCLIS #: TXD987966066

SITE ASSESSMENT REPORT

FOR

ABANDONED DRUMS AT
I.D.C WAREHOUSE (FORMERLY A.I.D. WAREHOUSE)
Houston, Harris County, Texas

Prepared for

EPA - Region VI
Emergency Response Branch

J. Chris Petersen
Deputy Project Officer

By

Ecology and Environment, Inc.
Technical Assistance Team

May 25, 1988



ecology and environment, inc.

1509 MAIN STREET, SUITE 814, DALLAS, TEXAS 75201, TEL. 214-742-6601

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1509 MAIN STREET, SUITE 814, DALLAS, TEXAS 75201, TEL. 214-742-6601

International Specialists in the Environment

DATE: May 25, 1988 CERCLIS #: TXD987966066

TO: Pat Hammack, OSC
EPA Region VI, Emergency Response Branch

THRU: J. Chris Petersen, DPO
EPA Region VI, Emergency Response Branch

THRU: Kishor Fruitwala, TATL
Region VI, Technical Assistance Team

FROM: Richard Yeager
Region VI, Technical Assistance Team

SUBJECT: Abandoned Drums at I.D.C. Warehouse (formerly A.I.D. Warehouse)
Houston, Harris County, Texas

TDD #: T06-8805-08
PAN #: TTX 0777 SAA

I.D.C. Warehouse (formerly known as A.I.D. Warehouse), located at 7198 Mykawa Road in Houston, Texas, was the subject of a TAT site assessment on May 19, 1988. The purpose of the assessment was to update the current condition of 91 overpacked drums at the warehouse. TAT members Richard Yeager, Holly Gray, Charles Wisnieski, and Jorge Aguirre participated in the assessment. TAT was accompanied by OSC Pat Hammack.

Background

The contents of the overpacked drums at the warehouse are known to be pesticides and pesticide formulation products. Region VI EPA first became involved with the material when the material was being shipped by train to the Houston area in 1984. Several of the containers broke during the shipment and Conservation Services, Inc., owners of the materials, accepted responsibility for the cleanup. All of the materials were overpacked and later transferred to a warehouse for storage and subsequent export. In March 1986, the drums were relocated to the A International Distribution (A.I.D.) Warehouse, at 7198 Mykawa Road, in Houston, Harris County, Texas. (The A.I.D. Warehouse has recently changed its name to the International Distribution Company (I.D.C.) Warehouse). Due to the contents and deteriorating condition of the drums, EPA and Texas Water Commission (TWC) have visited the I.D.C. Warehouse several times to perform site inspections.

Ownership of Warehouse

The I.D.C. Warehouse is rented by I.D.C. The property management firm which manages the property is Trammel Crow Company, located in Houston, Texas. The property is owned by New England Life. (See attachments for details).

Trip Narrative

TAT performed a site assessment at the I.D.C. Warehouse facility on May 19, 1988. Upon arrival at the facility, TAT and OSC Hammack spoke with Mr. Jim Walt, son of the company's president. The OSC explained to Mr. Walt about the possibility of a federal removal of the drums. Mr. Walt stated that 26 drums of chlorobenzilate and 5 drums of Tillam were removed from the warehouse by Oregon California Chemical Company. He also said that the drums, which are normally stacked (2 drums high) were unstacked for EPA's convenience.

TAT then proceeded to the area of the warehouse where the drums were stored. TAT dressed in safety level "B" to perform air monitoring with the Organic Vapor Analyzer (OVA), O₂ Meter/explosimeter, Radiation Alert Monitor (RAM) IV, HCN and H₂S monitoxes, and HCN draeger tubes. The only instrument which showed any readings above background was the OVA. The following readings were detected directly above the tops of the drums:

Benzene - several drums	200 - 500 ppm
Diethyl Sulfate - one drum	120 ppm
DDT - one drum	10 ppm
Isobutyronitrile - one drum	100 ppm
Boiler Water - one drum	3 ppm

TAT then numbered the drums from 1 to 91 with white spray paint. The drums were located on pallets, mostly 3 drums to each pallet. After numbering the drums, TAT proceeded to record the condition and contents of each drum. The contents of each drum had been marked on the drums by a magic marker, probably at the time they were overpacked. Of the 91 drums, the contents of 4 of the drums could not be determined either because the labels were no longer legible, or the labels may have been positioned where they could not be read.

Drum Inventory A.I.D. Warehouse

<u>Contents</u>	<u>Number of drums</u>
ALFUL	1
Amonic Surfactant	1
Atlox 3404F	1
Benzene	6
Boiler Water	2

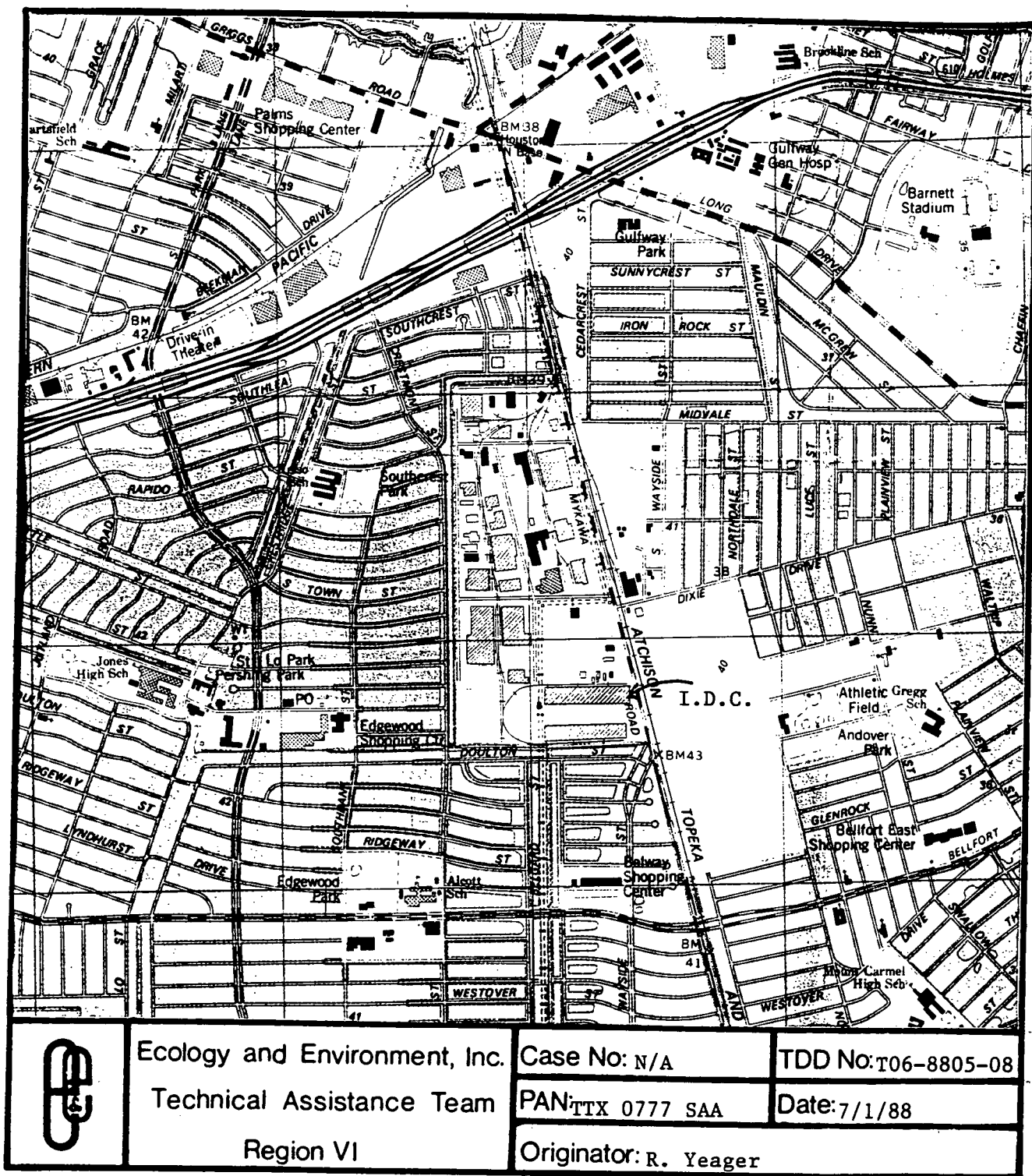
Chloral	5
Chlorobenzene	1
Crystal Inhibitor	2
Dichlorobenzene	2
2,4, Dichlorophenoxy Acetic Acid	2
Diethyl Sulfate	13
Dimethyl Sulfate	1
DDT	7
Epichlorohydrin	1
Isobutyronitrile	13
Methanol	7
Methyl Sulfate	1
Methyl Pyrophosphate	1
Naled (organic phosphate mixture)	1
Naphtha	1
Tergitol	1
Toxaphene	6
Trimethyl Phosphate	2
1,1,1 trichloroethane	1
Xylene	8
<u>Unknowns</u>	
Poison "B" UN2810	1
Poison "B" Liquid	1
Poison	1
Nothing Legible	1
Total	91

This inventory compares fairly well with previous inventories performed at the warehouse. Three of the drums were classified as being in poor condition, which were badly rusted, dented, or contained corrosion holes. Twenty-three were classified as fair and sixty-five were in good condition.

On June 10, 1988, TAT Yeager was informed by Pat Hammack that a PRP removal of the drums would be performed.

Attachments:

Location Map (USGS)
Site Sketch
Mounted Photographs
Unused Photographs and Negatives
TAT Field Notes
Site Safety Information for OSC Site Visit
Records of Communication
Title Search Information
IDC Current Inventory
Threshold Limit Values for IDC Abandoned Drums
Copy of TDD #: T06-8805-08

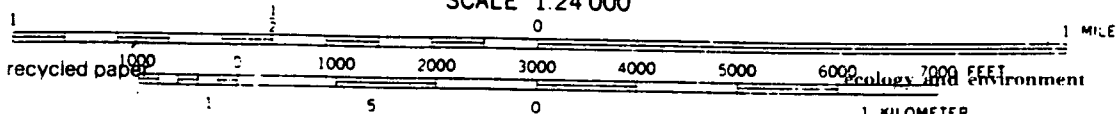


CERCLIS #: TXD987966066

I.D.C. Warehouse
Houston, Harris County, Texas

PARK PLACE QUADRANGLE
TEXAS-HARRIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

SCALE 1:24 000



	Ecology and Environment, Inc.	Case No:	TDD No: T06880508
	Technical Assistance Team	PAN: TTX 0777 SAA	Date: 7-1-88
	Region VI	Originator: R. Yeager	

CERCLIS #:TXD987966066

SITE SKETCH
I.D.C. WAREHOUSE

(not to scale)



TDD#: T06-8805-08 Pg. 1 of 12

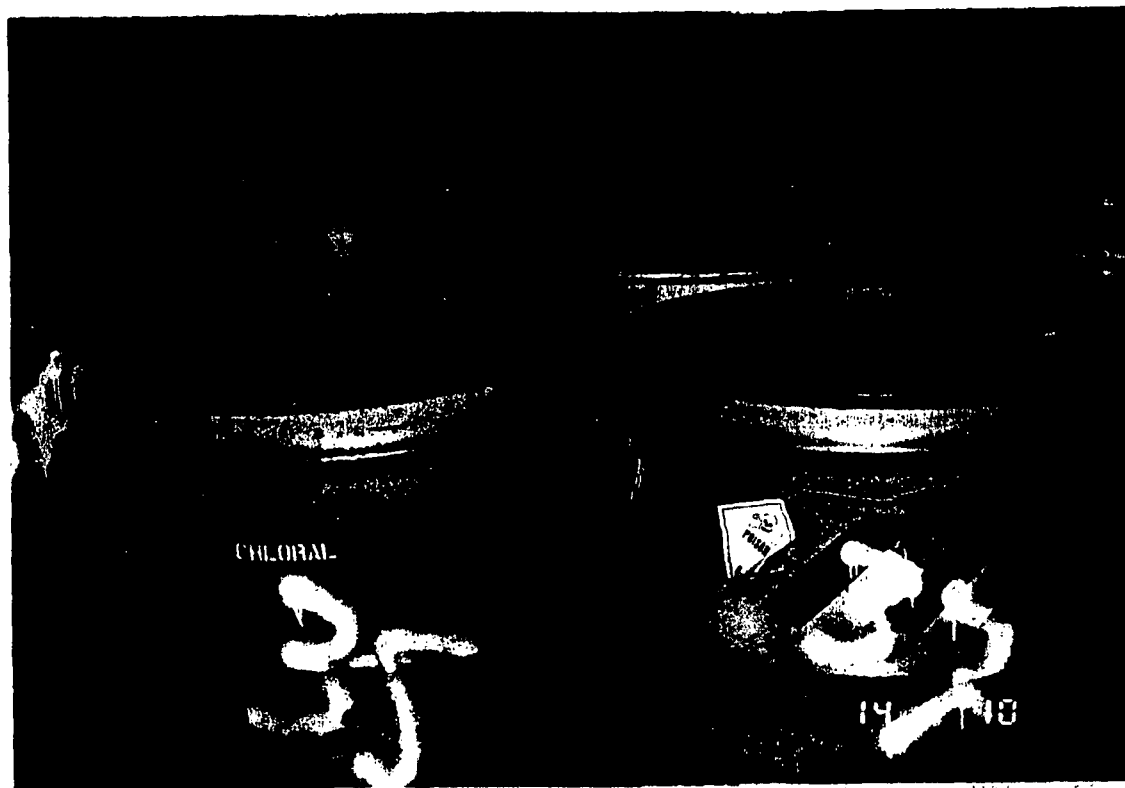
PHOTOGRAPHER/WITNESS # 6 - Roll #1

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/1406 hours/S

COMMENTS: Corroded top of drum #12 (marked as
"poison", no other markings visible).



TDD#: T06-8805-08 Pg. 2 of 12

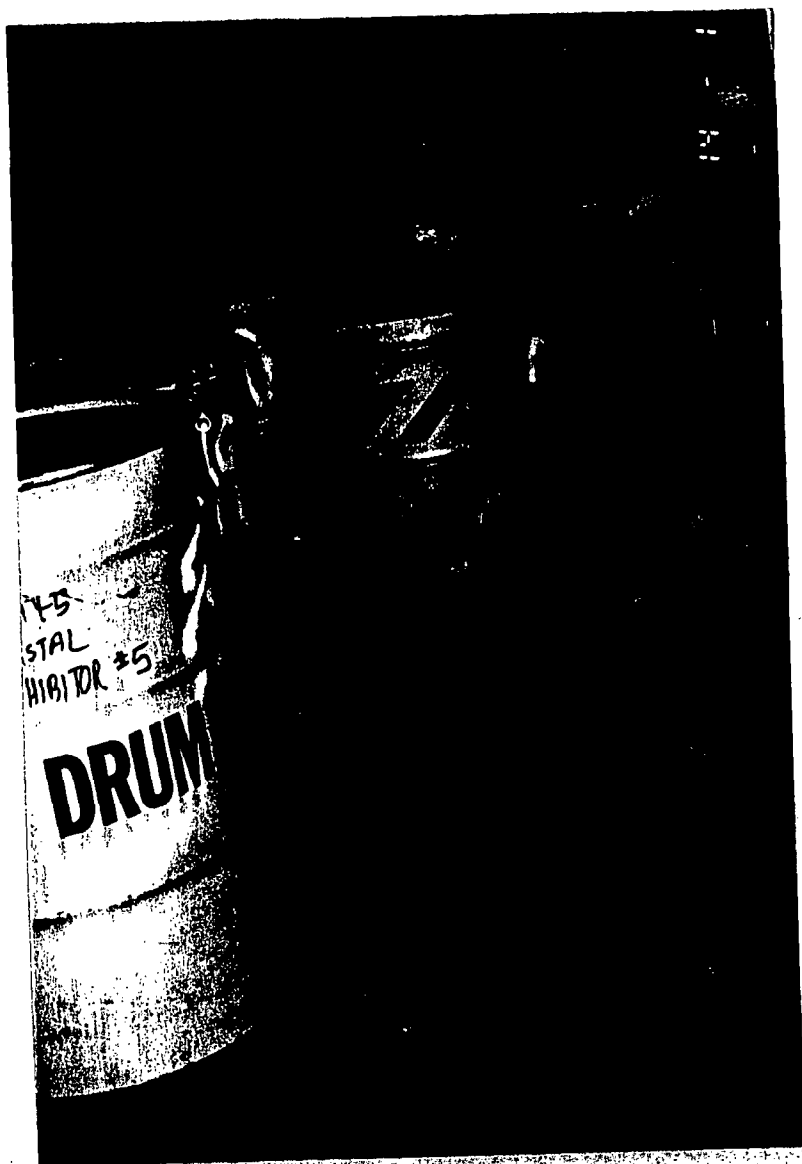
PHOTOGRAPHER/WITNESS # 9 - Roll #1

R. Yeager/C. Wisniewski

DATE/TIME/DIRECTION

5-19-88/1410 hours/S

COMMENTS: Rusted drum lids.



TDD#: T06-8805-08 Pg. 3 of 12

PHOTOGRAPHER/WITNESS # 10 - Roll #1

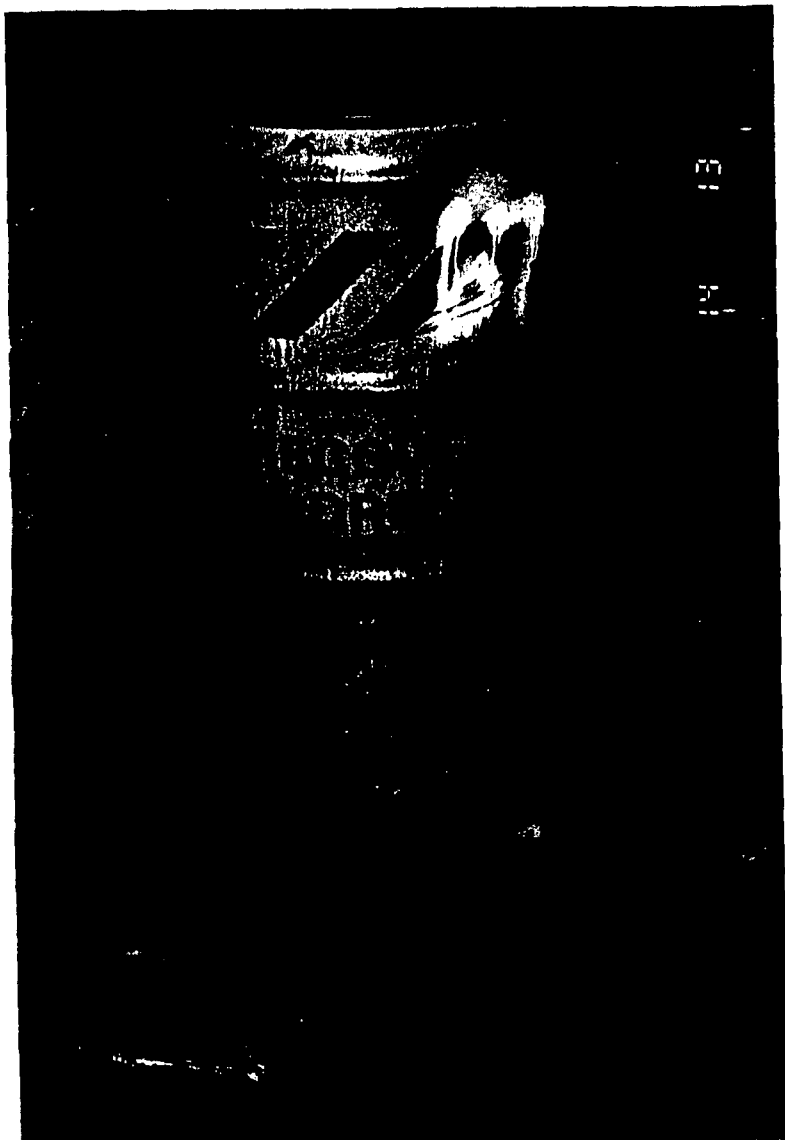
R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/1411/NW

COMMENTS: Drum in poor condition, containing

Diethyl Sulfate.



TDD#: T06-8805-08 Pg. 4 of 12

PHOTOGRAPHER/WITNESS # 12 - Roll #1

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/1413 hours/SW

COMMENTS: Drum #67, containing "Boiler Water."



TDD#: T06-8805-08 Pg. 5 of 12

PHOTOGRAPHER/WITNESS # 13 - Roll #1

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88 /1413 hours/S

COMMENTS: Ring and top of drum are bent on drum

#66, containing toxaphene.



TDD#: T06-8805-08 Pg. 6 of 12

PHOTOGRAPHER/WITNESS # 4 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/1422 hours/E

COMMENTS: Benzene drum from which readings of 500

ppm were detected just above the top of the drum.



TDD#: T06-8805-08 Pg. 7 of 12

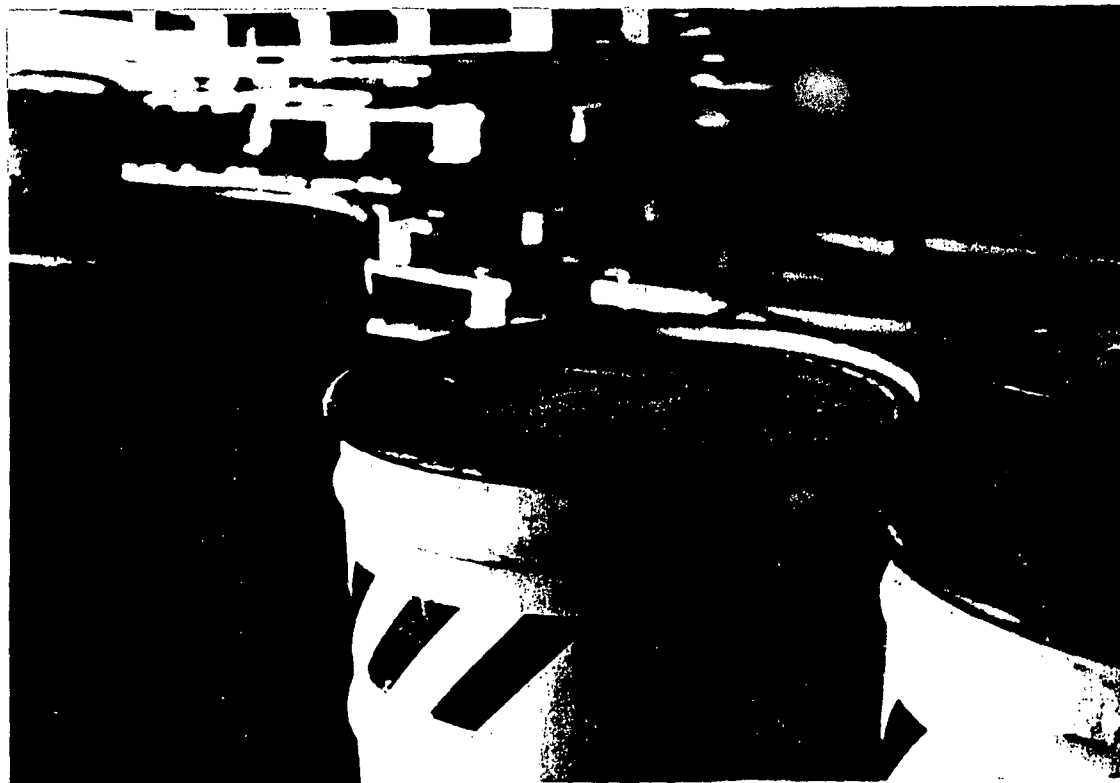
PHOTOGRAPHER/WITNESS # 7 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/1425 hours/E

COMMENTS: Benzene drums, high OVA readings.



TDD#: T06-8805-08 Pg. 8 of 12

PHOTOGRAPHER/WITNESS # 9 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/ 1426 hours/SW

COMMENTS: Drums with missing bung, containing

"boiler water."



TDD#: T06-8805-08 Pg. 9 of 12

PHOTOGRAPHER/WITNESS # 10 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5/19/88/1427 hours/SE

COMMENTS: Drum 69, containing dichlorobenzene



TDD#: T06-8805-08 Pg. 10 of 12

PHOTOGRAPHER/WITNESS # 11 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/1428 hours/N

COMMENTS: Drums 71 and 73, containing Toxaphene.



TDD#: T06-8805-08 Pg. 11 of 12

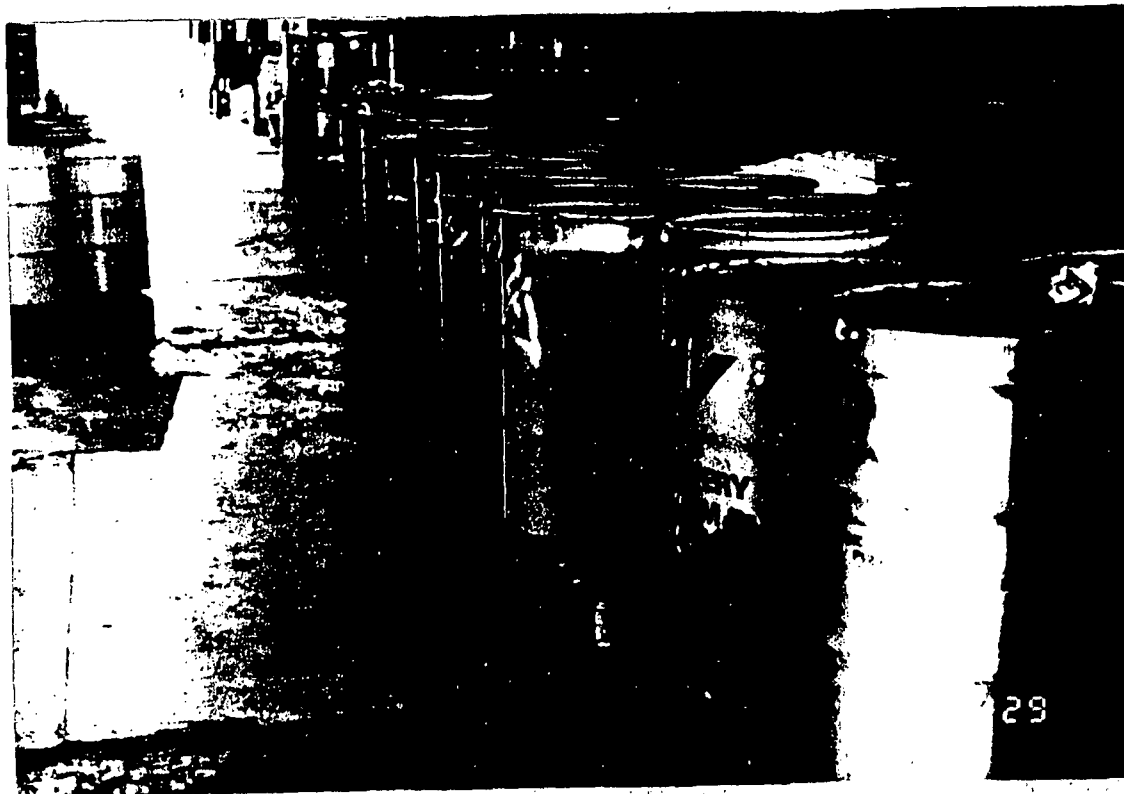
PHOTOGRAPHER/WITNESS # 12 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/ 1429 hours/NW

COMMENTS: Toxaphene



TDD#: T06-8805-08 Pg. 12 of 12

PHOTOGRAPHER/WITNESS # 13 - Roll #2

R. Yeager/C. Wisnieski

DATE/TIME/DIRECTION

5-19-88/ 1429 hours/S

COMMENTS: Position .. of drums.

E & E Job Number _____

Telephone Code Number _____

Site Name AID Warehouse

State/City Houston, TX

TDD 706-8805-08

PAN TTX 0777 SAA

SSID TXD 98 7966 066

Start/Finish Date 5-19-88 / 5-19-88

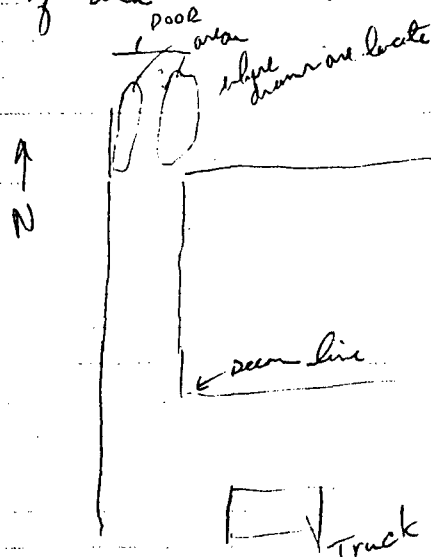
Book 1 of 1

5-19-88 AID. Warehouse T06-8805-08

0900 Houston TAT left office for warehouse (AID).
Team members: R. Giger, Team Leader; Nally,
Arag, Site Safety; W. Wisniewski and Jorge Aquino,
team members. Weather conditions: Bright
sunshine, mid 70's °F, calm winds, humid.

0930 arrived at AID. Met with MR. WALT at facility.
PAT Hammar, OSC, explained the possibility of
a federal removal of the drums. Mr. Walt
informed us that 26 drums of Chlorobenzilate and
5 drums of Teller were picked up by Oregon
California Chem. Co.

1000 Began setting up CP in warehouse. Sketch
of area



1006 Set up and calibrated Expobar/O₂ meter and
OUA. Exp! Serial # 008443, MSA
OUA - calibrated 1/16/88, SN 7949, checked
with main meter OK

5-19-88 AID. Warehouse T06-8805-08

1100 hours Yeager and Wisniewski exited drum
area. Results - several benzene drums
were emitting organic vapors - highest
reading on the top of the drums was
200-500 ppm. No readings were
recorded near walking areas near isles.
Highest reading on diethyl sulfate - 120 ppm.
Decided to go back in in Level B to complete
air monitoring. No readings were recorded
in ^{HCN} ^{gas} ^{drum} ^{area} ^{above} ^{isolate} drums.
The RAN IV did not go off.

1212 Yeager and Wisniewski came out of drum
area again. Completed air monitoring
max readings on top of DDT drums were
10 ppm. Max reading on one isobutyl n. was
7100 ppm. One drum Diethyl sulfate 7100 ppm.
These drums were catalogued in Level B.
The only other drums which had OVA readings
outside of the area where the drums were
already catalogued are the benzene drums and
boiler water. These RW boiler water was
max of 3 ppm. The benzene readings indicate
that we can safely downgrade to Level
C with PAPRS to remain below TLV.

1230 broke for lunch

1315 Yeager and Wisniewski re-entered job zone
to complete inventory in Level C, w/ PAPRS
The drums were numbered in White Spray
Paint from 1 to 91. The contents of the
drums were marked in magic markers. These
contents, along with the condition of each
drum, were noted. Most of the drums are
of the type "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z" "AA" "AB" "AC" "AD" "AE" "AF" "AG" "AH" "AI" "AJ" "AK" "AL" "AM" "AN" "AO" "AP" "AQ" "AR" "AS" "AT" "AU" "AV" "AW" "AX" "AY" "AZ" "BA" "BB" "BC" "BD" "BE" "BF" "BG" "BH" "BI" "BJ" "BK" "BL" "BM" "BN" "BO" "BP" "BQ" "BR" "BS" "BT" "BU" "BV" "BW" "BX" "BY" "BZ" "CA" "CB" "CC" "CD" "CE" "CF" "CG" "CH" "CI" "CJ" "CK" "CL" "CM" "CN" "CO" "CP" "CQ" "CR" "CS" "CT" "CU" "CV" "CW" "CX" "CY" "CZ" "DA" "DB" "DC" "DD" "DE" "DF" "DG" "DH" "DI" "DJ" "DK" "DL" "DM" "DN" "DO" "DP" "DQ" "DR" "DS" "DT" "DU" "DV" "DW" "DX" "DY" "DZ" "EA" "EB" "EC" "ED" "EE" "EF" "EG" "EH" "EI" "EJ" "EK" "EL" "EM" "EN" "EO" "EP" "EQ" "ER" "ES" "ET" "EU" "EV" "EW" "EX" "EY" "EZ" "FA" "FB" "FC" "FD" "FE" "FF" "FG" "FH" "FI" "FJ" "FK" "FL" "FM" "FN" "FO" "FP" "FQ" "FR" "FS" "FT" "FU" "FV" "FW" "FX" "FY" "FZ" "GA" "GB" "GC" "GD" "GE" "GF" "GG" "GH" "GI" "GJ" "GK" "GL" "GM" "GN" "GO" "GP" "GQ" "GR" "GS" "GT" "GU" "GV" "GW" "GX" "GY" "GZ" "HA" "HB" "HC" "HD" "HE" "HF" "HG" "HH" "HI" "HJ" "HK" "HL" "HM" "HN" "HO" "HP" "HQ" "HR" "HS" "HT" "HU" "HV" "HW" "HX" "HY" "HZ" "IA" "IB" "IC" "ID" "IE" "IF" "IG" "IH" "II" "IJ" "IK" "IL" "IM" "IN" "IO" "IP" "IQ" "IR" "IS" "IT" "IU" "IV" "IW" "IX" "IY" "IZ" "JA" "JB" "JC" "JD" "JE" "JF" "JG" "JH" "JI" "JJ" "JK" "JL" "JM" "JN" "JO" "JP" "JQ" "JR" "JS" "JT" "JU" "JV" "JW" "JX" "JY" "JZ" "KA" "KB" "KC" "KD" "KE" "KF" "KG" "KH" "KI" "KJ" "KK" "KL" "KM" "KN" "KO" "KP" "KQ" "KR" "KS" "KT" "KU" "KV" "KW" "KX" "KY" "KZ" "LA" "LB" "LC" "LD" "LE" "LF" "LG" "LH" "LI" "LJ" "LK" "LL" "LM" "LN" "LO" "LP" "LQ" "LR" "LS" "LT" "LU" "LV" "LW" "LX" "LY" "LZ" "MA" "MB" "MC" "MD" "ME" "MF" "MG" "MH" "MI" "MJ" "MK" "ML" "MM" "MN" "MO" "MP" "MQ" "MR" "MS" "MT" "MU" "MV" "MW" "MX" "MY" "MZ" "NA" "NB" "NC" "ND" "NE" "NF" "NG" "NH" "NI" "NJ" "NK" "NL" "NM" "NN" "NO" "NP" "NQ" "NR" "NS" "NT" "NU" "NV" "NW" "NX" "NY" "NZ" "OA" "OB" "OC" "OD" "OE" "OF" "OG" "OH" "OI" "OJ" "OK" "OL" "OM" "ON" "OO" "OP" "OQ" "OR" "OS" "OT" "OU" "OV" "OW" "OX" "OY" "OZ" "PA" "PB" "PC" "PD" "PE" "PF" "PG" "PH" "PI" "PJ" "PK" "PL" "PM" "PN" "PO" "PP" "PQ" "PR" "PS" "PT" "PU" "PV" "PW" "PX" "PY" "PZ" "QA" "QB" "QC" "QD" "QE" "QF" "QG" "QH" "QI" "QJ" "QK" "QL" "QM" "QN" "QO" "QP" "QQ" "QR" "QS" "QT" "QU" "QV" "QW" "QX" "QY" "QZ" "RA" "RB" "RC" "RD" "RE" "RF" "RG" "RH" "RI" "RJ" "RK" "RL" "RM" "RN" "RO" "RP" "RQ" "RR" "RS" "RT" "RU" "RV" "RW" "RX" "RY" "RZ" "SA" "SB" "SC" "SD" "SE" "SF" "SG" "SH" "SI" "SJ" "SK" "SL" "SM" "SN" "SO" "SP" "SQ" "SR" "SS" "ST" "SU" "SV" "SW" "SX" "SY" "SZ" "TA" "TB" "TC" "TD" "TE" "TF" "TG" "TH" "TI" "TJ" "TK" "TL" "TM" "TN" "TO" "TP" "TQ" "TR" "TS" "TT" "TU" "TV" "TW" "TX" "TY" "TZ" "UA" "UB" "UC" "UD" "UE" "UF" "UG" "UH" "UI" "UJ" "UK" "UL" "UM" "UN" "UO" "UP" "UQ" "UR" "US" "UT" "UU" "UV" "UW" "UX" "UY" "UZ" "VA" "VB" "VC" "VD" "VE" "VF" "VG" "VH" "VI" "VJ" "VK" "VL" "VM" "VN" "VO" "VP" "VQ" "VR" "VS" "VT" "VU" "VV" "VW" "VX" "VY" "VZ" "WA" "WB" "WC" "WD" "WE" "WF" "WG" "WH" "WI" "WJ" "WK" "WL" "WM" "WN" "WO" "WP" "WQ" "WR" "WS" "WT" "WU" "WV" "WW" "WX" "WY" "WZ" "XA" "XB" "XC" "XD" "XE" "XF" "XG" "XH" "XI" "XJ" "XK" "XL" "XM" "XN" "XO" "XP" "XQ" "XR" "XS" "XT" "XU" "XV" "XW" "XX" "XY" "XZ" "YA" "YB" "YC" "YD" "YE" "YF" "YG" "YH" "YI" "YJ" "YK" "YL" "YM" "YN" "YO" "YP" "YQ" "YR" "YS" "YT" "YU" "YV" "YW" "YX" "YY" "YZ" "ZA" "ZB" "ZC" "ZD" "ZE" "ZF" "ZG" "ZH" "ZI" "ZJ" "ZK" "ZL" "ZM" "ZN" "ZO" "ZP" "ZQ" "ZR" "ZS" "ZT" "ZU" "ZV" "ZW" "ZX" "ZY" "ZZ"

519-88 A10 Warehouse
are badly deteriorated.
Inventory of Drums:

706 880508

	condition
1 Diethyl Sulfate	Good
2 Diethyl Sulfate	Fair
3 Xylene	Fair
4 Isobutyronitrile	Fair
5 DDT 3-50 # bags in overpack	good
6 DDT	good
7 Methanol (top of drum says Benzene)	good
8 Tergitol	good
9 Xylene	Fair
10 Chloral	Fair
11 Methanol	good
12 marked as "poison", no other markings legible	Poor - corrosion hole in top
13 Xylene	good
14 2,4 Dichlorophenoxy Acetic Acid	Fair
15 Methanol	Fair
16 Chloral	good
17 Isobutyronitrile	good
18 Chloral	good
19 Orzan-A (DDT on top of Drum), 3-50# bags	good
20 Diethyl Sulfate	good
21 Isobutyronitrile	good
22 DDT	good
23 Diethyl Sulfate	good
24 Diethyl Sulfate	good
25 Isobutyronitrile	good
26 Benzene	good
27 Isobutyronitrile	good
28 1,1,1 Trichloroethane	good
29 NALED 30 gal drum in overpack, top of drum says "Organic Phosphate Mixture"	good

5-19-88 A10 Warehouse

706 880508

30 Benzene	good
31 Dichlorobenzene	Fair
32 Isobutyronitrile	good
33 Diethyl Sulfate	good
34 DDT (4-50 # g RNY bags)	good
35 Chloral	Fair - top rusted
36 Isobutyronitrile	good
37 Poison "B" UN 2810	Fair - top rusted
38 Methyl Sulfate	good
39 methanol (30 gal drum)	good
40 Amonic Surfactant (Flow)	good
41 Xylene	Fair - rusted top
42 Atlox 3404F	good
43 Toxaphene	good
44 Poison "B" liquids, no other marking	good
45 Dichlorobenzene	good
46 Trimethyl Phosphate	good
47 Crystal Inhibitor	good
48 Benzene	good
49 Crystal inhibitor goo RNY	good
50 Diethyl Sulfate	good
51 Diethyl Sulfate	Poor - rusted top, sides badly corroded but no holes visible
52 Waste Toxaphene	Fair - rusted top
53 Isobutyronitrile	good
54 Isobutyronitrile	Fair - rusted top
55 Methanol (30 gal drum)	good
56 Trimethyl phosphate	Fair - rusted top
57 Isobutyronitrile	good
58 Methanol (30 gal drum)	Fair
59 Isobutyronitrile	Fair
60 A. H. A. S. I. C. I.	-

5-19-88 AID Warehouse 706-880508

61 2,4 Dichlorophenoxy Acetic Acid ^{ENV} good

62 Methanol good

63 Isobutyronitrile (sp?) good

64 Xylene fair

65 Boiler Water bung missing

66 Toxaphene poor & overpack
lid is dented

67 Boiler Water fair

68 nothing legible good

69 Chlorobenzene fair

70 DDT good

71 Toxaphene fair

72 Chloral good

73 Toxaphene good

74 Diethyl Sulfate good

75 Diethyl Sulfate good

76 Diethyl Sulfate good

77 Dimethyl Sulfate good

78 Xylene good

79 ~~Toxaphene~~ ? ^{ENV} TOXAPHENE fair

80 DDT good

81 Benzene good

82 Benzene good

83 ALFAL good

84 ? Methyl Paraphosphate fair

85 Isobutyronitrile good

86 Naphtha good

87 ^{ENV} Epichlorohydrin good

88 Xylene fair

89 Dimethyl Sulfate good

90 Benzene good

5-19-88 AID Warehouse 706-880508

91 Xylene fair

It should be noted that the present inventory list carried by the AID Warehouse indicates 92 drums are present. Also, "Isobutyronitrile" is sometimes spelled "Isobutyronitrile" on the drums.

^{ENV} 133045 Yeager And Wisniewski completed Inventory. Came out of drum area for a break.

1400 Yeager and Wisniewski returned to drum area to take pictures

photolog
Roll 1

#1 1328 N Scan of drums looking north

#2 1328 N A/A

#3 1329 N A/A (1-3 taken by OSC)

#4 1406 SW view of drums

#5 misfire

#6 1407 S corroded top of drum #12

#7 1408 W group of drums

#8 1409 NE Benzene drum which had an OVA reading of 500 ppm on the top of the drum (#1)

#9 1410 W Rusty lids on drums 35 + 37

#10 1411 NW Rusty drum #51

#11 1413 ^{ENV} Drum #65 w/ Bung missing (NW)

#12 1413 SW Drum #67, rusty

#13 1413 S Drum #66 ring on overpack lid is bent

Roll 2

#1 1420 NW View of drums

#2 1421 W "ORZAN-A"

#3 1422 W Drum 12, corroded top

#4 1422 E Benzene drum, high ~ 500 ppm readings

#5 1423 NW Drum 32

#6 1424 SW Corroded

#7 1425 - 1 0 1 1 1 1 1 1

5-19-88

A10 Warehouse TOC 880588

8 1426 SW Drum 67
 # 9 1428 SE Drum w/ open bang
 # 10 1428^{RM} SE Drum 69
 # 11 1428 N Drums 73+75
 # 12 1429 NW Drum 66
 # 13 1429 S Warehouse
 # 14 1430 NW "

1430 TAT exited lot one after photo session.
 TAT Holly Gray spoke with Warehouse Manager
 and informed him about the condition of drums
 and OVA readings from drums. TAT then
 proceeded to pack the equipment. TAT left
 one 17-H D.O.T. reconditioned drum with investigator
 derived material (waste sawdust, booties etc.) at
 the warehouse and marked it "TAT WASTE" in
 white spray paint. We had prior permission
 of the warehouse owners to do so.
 1515 TAT left the warehouse for the Houston office.

5-19-88
 M. J. [signature]
 [signature]

SITE SAFETY INFORMATION FOR EPA OSC SITE VISIT

A. GENERAL INFORMATION

SITE: A.I.D Warehouse Job/ID NO.: 706-8805-08

LOCATION: 7198 Mykawa Houston TX

OBJECTIVE(S): Conduct site Assessment at Warehouse

PROPOSED DATE OF INVESTIGATION: 5/19/88

BACKGROUND INFORMATION: Complete: ☒ Preliminary (no analytical data available) ☐

DOCUMENTATION/SUMMARY: Overall Hazard: Serious: ☒ Moderate: ☐
Low: ☐ Unknown: ☐

B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid X Solid Sludge Gas X
CHARACTERISTIC(S): Corrosive X Ignitable X Radioactive Volatile X
Toxic X Reactive X Unknown Other (Name)

FACILITY DESCRIPTION: (include type of operations) This facility is an active warehouse

Principal Disposal Method (type and location): Storage only in 80 gallon overpack steel drums.

Unusual Features (dike integrity, power lines, terrain, etc.): All of drums are in a warehouse. The drums are secured, but the warehouse is active.

Status: (active, inactive, unknown) part of warehouse is active

History: (injury, complaints, previous agency action): 123 drums (overpacks) stored at A10 warehouse contain various overpack containers. The containers held a variety of chemicals used in pesticide manufacturing. The chemicals were overpacked in 1984 when ~~a~~ ~~them~~ during their shipment, the containers were damaged. The drums have been located at the A10 warehouse since 1986. Some of the drums show signs of corrosion. Odor has been detected from the drums by TWC in November 1987.

EXHIBIT 6-6 (CONTINUED)

DECONTAMINATION PROCEDURES: Will establish a decontamination reduction area
visiting the site. Standard Decon for levels B, C and D.

EQUIPMENT: Equipment drop, wash and rinse bucket

PERSONAL: Wash buckets & rinse bucket for feet, Rinse bucket
for hands. Sterilizer for face masks + SCRA
material

Special Equipment, Facilities, or Procedures: Hard hat must be worn -
active warehouse.

SITE ENTRY PROCEDURES AND SPECIAL CONSIDERATIONS: Warehouse will be treated
as a confined-space entry and confined-space entry
procedures will be followed.

WORK LIMITATIONS (Time of day, Weather Conditions etc.): work should be
completed during daylight hours only.

INVESTIGATION-DERIVED MATERIAL DISPOSAL: Drum in 17-H drum and
leave at Warehouse. This includes wash water from the
decon line.

Team Member

Richard Yeager

Holly Gray

Aguillar

Winnicki

Responsibility

Team Leader

Site Safety Coordinator

member

Member

EXHIBIT 6-6 (CONTINUED)

C. HAZARD EVALUATION

The overpack drums contain various materials used in the manufacture of pesticides. These include: PDT, toxaphene, EDB, Acetone cyanohydrin (HCN generator), diethyl sulfate, paracetamol, para thion, trimethyl phosphate, chlorobenzilate, diethyl sulfate, benzene, xylene. Characteristics of these various chemicals include: Corrosiveness, pyrophoric, flammable, carcinogenic, and ability to generate HCN. Several containers have been labeled with corrosion holes (from inside-out). Several chemicals are readily absorbed through the skin.

Contact with drums or any material spilled on the floor should be avoided.

A TWC employee stated that at least one drum was emitting an odor.

D. SITE SAFETY WORK PLAN

PERIMETER ESTABLISHMENT: Map/Sketch Attached? No Site Secured? yesPerimeter Identified? no Zone(s) of Contamination Identified? yesWork Areas Designated? noWill establish perimeter and work areas upon arrival.
Decontamination reduction area will be located outside of
building.

PERSONAL PROTECTION:

Level of Protection: A B X C X D Modifications: Will use saranex ^{with} hoods - ~~not~~ will tape to
face mask. ~~not wearing mask~~Surveillance Equipment and Action Levels: Wind direction indicator (i.e., surveying
tape on pole). Surveillance Equipment - HCN Draeger tubes,
RAM IV, OVA, explosimeter, H₂S and HCN monotox.
detectors.

EXHIBIT 6-6 (CONTINUED)

E. EMERGENCY INFORMATION

(Use Supplemental Sheets if Necessary)

EMERGENCY PRECAUTIONSAcute Exposure SymptomsHCN - difficult breathing, palpitation,
paralysis, unconsciousness, deathpesticide - fever, cyanosis,
pulmonary edema, coma, shock death
BenzeneFirst AidEyes - irrigate with water
Transfer person from environment
remove all clothing and wrap in a
blanket. Administer CPR if needed.
Irrigate eyes, CPR, wash with
soap and water
A/A, no adrenalineLOCAL RESOURCES

(Name, Address and Phone Number)

Ambulance 911Hospital Emergency Room Hermann Hospital 1203, Ross Sterling, 797-4060Poison Control Center 654-1701Police (incl. Local, County Sheriff, State) Houston Police Dept 911Fire Department Houston Fire Dept 911Airport HobbyExplosives Unit Fire Department HAZMAT 222-7791Agency Contact (EPA, State, Local, USCG, etc.) EPA Sgt Hamrick 214-655-2270Local Laboratory EPA Lab 6608 Hornwood, Houston TX 954-6771UPS/Federal Express Houston OfficeClient Contact N/ASite Contact Doug Walt (Pres) AID Warehouse 645-4080SITE RESOURCESWater Supply Source At Warehouse. TAT will bring all water neededTelephone Location, Number Warehouse # 645-4080

Radio

Other

Emergency Routes

Directions to Hospital (incl. MAP) Turn north () on Mykawa Rd
proceed 1 mile to Loop 610. Go West on 610 to 288. Turn north
on 288 towards downtown. Exit 288 onto Holcombe Blvd.
Turn ~~left~~ right on Fannin. Proceed to Ross Sterling
avenue and take a right. Hermann hospital will be on the left.
1203 Ross Sterling Road.

Other _____

EXHIBIT 6-6 (CONTINUED)

F. EQUIPMENT CHECKLIST

PROTECTIVE GEAR

LEVEL A

SCBA

SPARE AIR TANKS

ENCAPSULATED SUIT

SURGICAL GLOVES

NEOPRENE SAFETY BOOTS

BOOTIES

GLOVES (TYPE)

OUTER WORK GLOVES

HARD HAT

CASCADE SYSTEM

LEVEL C

ULTRA-TWIN RESPIRATOR X

POWER AIR PURIFYING RESPIRATOR X

CARTRIDGES (TYPE Gmpd) X

ROBERTSHAW ESCAPE MASK X

CHEMICAL RESISTANT COVERALLS

PROTECTIVE COVERALL (TYPE Saranex) X

RAIN SUIT

BUTYL APRON

SURGICAL GLOVES X

GLOVES (TYPE neoprene) X

OUTER WORK GLOVES

NEOPRENE SAFETY BOOTS X

HARD HAT WITH FACE SHIELD X

LEVEL B

SCBA X

SPARE AIR TANKS X

CHEMICAL RESISTANT COVERALLS X

PROTECTIVE COVERALL (TYPE Saranex) X

RAIN SUIT X (available)

BUTYL APRON

SURGICAL GLOVES neoprene (avoid) X

GLOVES (TYPE neoprene) X

OUTER WORK GLOVES

NEOPRENE SAFETY BOOTS X

BOOTIES X

HARD HAT WITH FACE SHIELD X

CASCADE SYSTEM

MANIFOLD SYSTEM

LEVEL D

ULTRA-TWIN RESPIRATOR (AVAILABLE)

CARTRIDGES (TYPE)

ROBERTSHAW ESCAPE MASK (AVAILABLE)

CHEMICAL RESISTANT COVERALLS

PROTECTIVE COVERALL (TYPE)

RAIN SUIT

NEOPRENE SAFETY BOOTS

BOOTIES

WORK GLOVES

HARD HAT WITH FACE SHIELD

SAFETY GLASSES

EXHIBIT 6-6 (CONTINUED)

INSTRUMENTATION

OVA	<u>X</u>
THERMAL DESORBER	<u> </u>
OZ/EXPLOSIMETER	<u>X</u>
EXPLOSIMETER CALIBRATION KIT	<u> </u>
HNU	<u> </u>
VICTOREEN 471	<u> </u>
MAGNETOMETER	<u> </u>
PIPE LOCATOR	<u> </u>
WEATHER STATION	<u> </u>
DRAEGER PUMP	<u>X</u>
BRUNTON COMPASS	<u> </u>
<u>RAM IV</u>	<u>X</u>
<u>H₂S/HCN monitors</u>	<u>X</u>

DECON EQUIPMENT (CON1.)

PLASTIC SHEETING	<u>X</u>
TARPS	<u> </u>
TRASH BAGS	<u>X</u>
TRASH CANS	<u> </u>
MASKING TAPE	<u>X</u>
DUCT TAPE	<u>X</u>
PAPER TOWELS	<u>X</u>
FACE MASK	<u>X</u>
FACE MASK SANITIZER	<u>X</u>
FOLDING CHAIRS	<u> </u>
STEP LADDERS	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

FIRST AID EQUIPMENT

FIRST AID KIT	<u>X</u>
OXYGEN ADMINISTRATION	<u> </u>
STRETCHER	<u> </u>
PORTABLE EYE WASH	<u>X</u>
BLOOD PRESSURE MONITOR	<u> </u>
RADIATION BADGES	<u>X</u>
FIRE EXTINGUISHER	<u>X</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

SAMPLING EQUIPMENT

<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
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<u> </u>	<u> </u>
<u> </u>	<u> </u>

DECON EQUIPMENT

WASH TUBS	<u>X</u>
BUCKETS	<u>X</u>
SCRUB BRUSHES	<u>X</u>
PRESSURIZED SPRAYER	<u>X</u>
DETERGENT (TYPE <u>TSP</u>)	<u>X</u>
SOLVENT (TYPE <u> </u>)	<u> </u>

EXHIBIT 6-6 (CONTINUED)

VAN EQUIPMENT

TOOL KIT

HYDRAULIC JACK

LUG WRENCH

TOW CHAIN

VAN CHECK OIL

GAS

OIL

ANTIFREEZE

BATTERY

WINDSHIELD WASH

TIRE PRESSURE

MISCELLANEOUS (CONT.)

BINOCULARS

MEGAPHONE

MISCELLANEOUS

PITCHER PUMP

SURVEYOR'S TAPE

100' FIBERGLASS TAPE

300' NYLON ROPE

NYLON STRING

SURVEYING FLAGS

FILM

WHEEL BARROW

BUNG WRENCH

SOIL AUGER

PICK

SHOVEL

CATALYTIC HEATER

PROPANE GAS

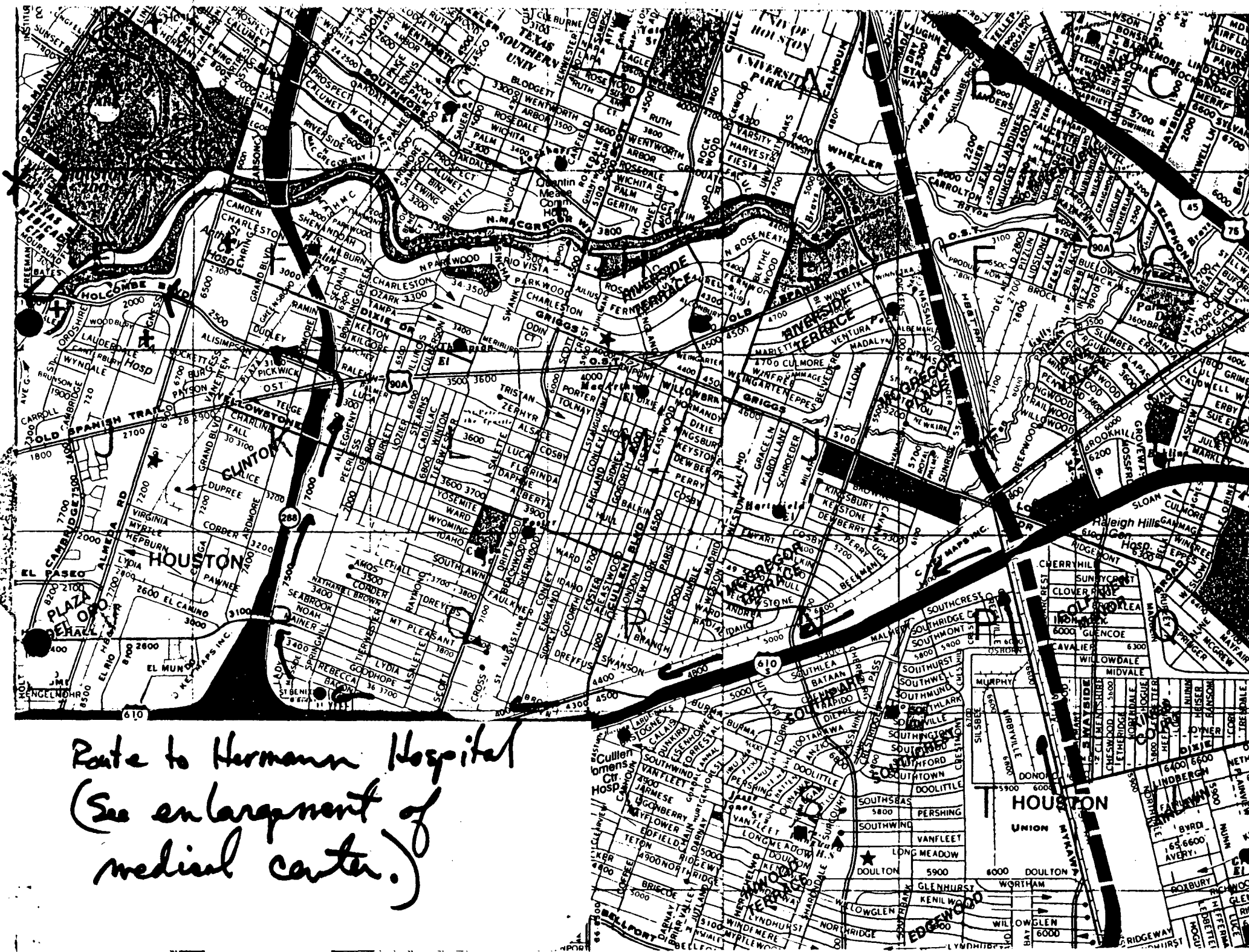
BANNER TAPE

SURVEYING METER STICK

CHAINING PINS & RING

TABLES

WEATHER RADIO



Route to Hermann Hospital
(See enlargement of
medical center.)



Aero Flight Air
Andrau Air Park
Bearnan Airport
Blimp Base
Clover Field
Covey Trails Air
Ellington Air F
Genoa Airport
Hobby, William
Hooks, D.W.
Houston Gulf
Houston Inter
Houston Metter
Houston South
Hull, Don, Air
Humphrey Air
Ken-Ada Ran
La Porte Air
Lakeside Air
Lyndon B. J
Maybrook
McCall Airport
Pearland Air
Pearland, Sk
Polly Ranch
R.W.J. Airpar
Sty Lakes A
Shively Mar
Wesner Airp
West Houst
Westmeier
Williams Air
Wolfe Air P

Bank No.

Aberlame
Aldred Add.
Alfred Amel
Allard Ban
Alford Bar
Alfred Ban
Alfred Ban
Alfred Ban
Alfred Bar
Alfred Bar
Alfred Bar
Alfred Bar
Alfred Bar
Alfred Be
Alfred Co
Alfred Ch
Alfred Cy
Alfred De
Alfred Fa
Alfred Hi
Alfred Hi
Alfred Je
Alfred M
Alfred M
Alfred M
Alfred P
Alfred S
Alfred St
Alfred V
Americ
America
Amerw
Amerw
Artime
Asian /

Bancie:
Bancie:
Bancie:
Bancie:
Bank 7:
Bank 4:
Bank:
Bank:
Bank:
Bank:
Bank:
Bankey:
Bay:
Baybr:
Baypr:
Bayst:
Baytc:
Bear:
Belle:
Beml:
Braer:

Cap.
Cap.
Cap.
Cap.
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Cap.
Gen.
Gen.
Chas.
Chas.
Chas.
Chas.
Chas.
Chas.

Originator: 4 May (Palmer Whse)
IDC Whse

PHONE CONVERSATION RECORD

Conversation with:

Date: 5/11/88

Name: Pat Hammack

Time: pm AM/PM

Company: EPA - OSC

Address: Dallas, Tx.

☒ Originator Placed Call

☐ Originator Received Call

Phone: 214-655-2270

W.O. No.:

Subject: Site Assessment 5/18 & 19/88 For Palmer Whse & A-Int'l. Distrib. Co. Whse.

Notes:

- OSC Hammack would like to conduct an inspection of both The A-Int'l Distribution Co. Warehouse and The Palmer Warehouse next week on Wed & Thurs, May 18-19, 1988.

- OSC Hammack has file data on both these warehouses. Will bring to Houston with him. TAT can then make a copy.

- { TAT began search for background data on these facilities to prepare for site safety plan - for site entry assessment: - Sources:

Hou File - Warren Zehner - Old Weston File from Aug 5-Oct. 1984

EPA-Hou RCRA - Made arrangement to visit & review file data - 5-12-88 pm.

TWC - CK if any involvement - Review their file on 5-12-88 pm.

Warren Zehner - Called - stated Hammack had whatever data Warren worked on in Nov. 1986 when project was again reviewed for AID Whse.

☒ File:

Follow-Up Action:

Tickle File: 1 1

Follow-Up By:

Copy/Route To:

Originator's Initials: WJG

Originator: 4. Long

(Palmer Whse)
IDC Whse

PHONE CONVERSATION RECORD

Conversation with:

Name: Pat Hammock

Company: EPA - OSC

Address: Dallas, TX

Phone: 214-655-2270

Subject: _____

Date: 5/12/88

Time: 1050/1055 AM/PM

☒ Originator Placed Call

☒ Originator Received Call

W.O. No.: _____

Notes: _____

- Called re data provided by Susan Feeting of EPA Houston office.
- OSC already had complete file on AID whse from Jim Mullins.
- Will provide data to TAT on Wednesday 5-18 when in Houston for Palmer Whse and AID Whse site assessments.
- Will call PRP's Friday am to set tentative schedule of inspections. Tentatively planning Palmer Whse 1st in Level C, then have full day Thursday 5-19 for AID Whse inspection in Level B.
- OSC will be staying at The Marriott, 10 miles from Hobby

☒ File: _____

Tickle File: / /

Follow-Up By: _____

Copy/Route To: _____

Follow-Up Action: _____

Originator's Initials: HLG

Originator: H. S. Long

(Palmer Co.)
EDC Whse

PHONE CONVERSATION RECORD

Conversation with:

Date: 5/12/88

Name: Susan Furtag

Time: 900 AM/PM

Company: EPA - Hon

Address: 6608 Hornwood

☒ Originator Placed Call

Hon

☐ Originator Received Call

Phone: 754-6766

W.O. No.: _____

Subject: Palmer Pack data & A INT'L. District Whse. File Data

Notes: _____

900 - Called ref Palmer Pack Co. whse file. Gave MSDS sheets to J. McLaughlin - Chemicals not listed in E&E file.

940 - Picked up data on Palmer Pack Co. whse including copy of log from EPA-Houston inspection on Feb 10, 1988.

- Did not have a copy of the MSDS sheets. TAT indicated that when these were obtained from J. McLaughlin, TAT would make a copy & return them to her.

- Also discussed A International Distribution Co. is a house. Hon - EPA was involved along w/ TWC and Agricultural Dept. File data reviewed and copy of data obtained.

• Hon EPA Inspector of whse on November 30, 1987.
(Most recent data)

• Obtained photo negatives from inspector - Will return ASAP.

• 26 of the 51 drums of Chlorobenzilate sold Dec. 4, 1987 to
5 drums of Tillam - Sold Oregon Chemical of California

• Check w/ Dept. of Agriculture

Steve Chetlain, RCRA Enforcement 214-655-6775

Jim Mullins, EPA.

☒ File: _____

Follow-Up Action: _____

Tickle File: 1 1

Return Photo Negatives (AID Copy) ok 5-23

Follow-Up By: _____

Copy MSDS - Palmer Pack Co. ok 6-1

Copy/Route To: _____

Originator's Initials: HSL

(ZPC #100)

Originator

PHONE CONVERSATION RECORD

Conversation with:

Date: 5/12/88

Name: Sandy Parker

Time: 9:10 AM/PM

Company: TWC

Address: 4301 Center Street

☒ Originator Placed Call

Deer Park, TX 77536-6299

☐ Originator Received Call

Phone: 479-5981

W.O. No.: _____

Subject: A Int'l. District Corp. File Data

Notes:

- 9:10 - Called up data on A Int'l District Corp.
Can review file this afternoon ~ 2-230.
TWC was involved in the inspection of the facility
at Waver Zehner in Nov. 1986 and has data from
original train spill in 1984 of the chemicals.
- 2:30 - Reviewed Data - Xeroxed portion of file for BAT
background including copy of photos TWC had taken.

☒ File: _____

Follow-Up Action: _____

Tickle File: 1 / 1 / _____

Follow-Up By: _____

Copy/Route To: _____

Originator's Initials: SLG

Originator

PHONE CONVERSATION RECORD

Conversation with:

Date: 5/13/88

Name: Doug Walt, President

Time: _____ AM/PM

Company: A Intl Distributor

Address: 7198 MYKAWA

☒ Originator Placed Call

Ann, TX

☐ Originator Received Call

Phone: 645-4080

W.O. No.: _____

Subject: Inform AID of Site Assessment & Intent of Assessment

Notes:

- Told Mr. Walt of planned inspection for either Wed or Thurs (5-18 or 19) of next week. The inspection will include an OSC, EPA representative along with the TAT group and will be for assessment for immediate removal action.
- Inspection ok - Will not be in next week. Please confirm date of TAT's inspection with his son, Tim Walt.

☒ File: _____

Follow-Up Action: _____

Tickle File: 1 1

Follow-Up By: _____

Copy/Route To: _____

Originator's Initials: ALJ

Originator

PHONE CONVERSATION RECORD

Conversation with:

Date: 5/17/88

Name: Mr. Tim Walt (son of Doug Walt)

Time: 825 am AM/PM

Company: A International Distributor

Address: 7198 MYKAWA

☒ Originator Placed Call

Hon. To

☐ Originator Received Call

Phone: 645-4080

W.O. No.: _____

Subject: Confirm time of inspection - Permission to leave drum

Notes:

- Doug Walt, President, had not passed on info re inspection on 5/19/88. Confirmed appointment for Thursday 5/19/88 at 1000 hours.
- Requested and received permission to leave decom drum on site with other SCT stored drums.
- Informed Mr. Tim Walt that TAT would be in Level "B" office w/SCBA's, etc. Would that pose a problem w/ the fact other workers present in Level "D"? No - OK for TAT procedures.
- Mr. Walt would unstack the drums and put in center of warehouse for TAT inspection of drum condition.
- TAT understands from the TWC that 5 of the 123 drums have been sold. Can he verify which drums have been sold? - Will call TAT back.
(5 Tillam & 26 Chlorobenzilate sold 12-4-87.)

☒ File: _____

Follow-Up Action: Mr Walt to call back re 5 sold drums sold.

Tickle File: 1 1

Follow-Up By: _____

Copy/Route To: _____

Originator's Initials: LLG

Originator: Richard W. Meyer

PHONE CONVERSATION RECORD

Conversation with:

Date: 1/31/88

Name: Mr. Plunkett

Time: 1905 AM/PM

Company: 100 W. W. B. Co.

Address: 1100 N. W. B. Co.

☒ Originator Placed Call

☐ Originator Received Call

Phone: 445-4080

W.O. No.: _____

Subject: Ownership of Warehouse

Notes: International Distribution Corporation
is a subsidiary corporation of Mr. Dory
Walt in Texas. # D. C. Co. to the
warehouse from International Distribution Corporation.

File: _____

Follow-Up Action: _____

Tickle File: / /

Follow-Up By: _____

Copy/Route To: _____

Originator's Initials: RWY

Original

PHONE CONVERSATION RECORD

Conversation with:

Date: 5 / 31 / 88

Name: David Hanks

Time: 0930 AM/PM

Company: Terminal Coal Company

Address: _____

 Originator Placed Call

 Originator Received Call

Phone: 643-2020

W.O. No.:

Subject: Ownership of AID Warehouse (IDC)

Notes: Mr. Daule said that 7198 Mykawa
is managed by Terminal Crane Corporation
and owned by New-England Life. He also
stated that that Terminal Crane Company
is a privately owned management firm (it
and is not incorporated).

File: _____

Tickle File: _____/_____/_____

Follow-Up By: _____

Copy/Route To: _____

Follow-Up Action: Call P.

Hammack and
report

Originator's Initials:

Original

Richard E. Fager

PHONE CONVERSATION RECORD

Conversation with:

Name: Pat Hammond

Company: E 14

Address: 2111

Phone: 214 - 855 - 2270

Subject: Do we want it.

Date: 5/3/88

Time: 0900 AM/PM

Originator Placed Call

Originator Received Call

W.O. No.:

Notes: Pat said to go ahead and perform title search of A12 warehouse (IDC)

File: _____

Tickle File: _____/_____/_____

Follow-Up By: _____

Copy/Route To: _____

Follow-Up Action: _____

Originator's Initials: RM

Originator

PHONE CONVERSATION RECORD

Conversation with:

Name: Rick March (Crystal)

Date: 5/31/88

Company: ~~Chicago Title~~ RNY Title Search

Time: 1000 AM/PM

Address: Chicago Title

☒ Originator Placed Call

☐ Originator Received Call

Phone: 659-1411

W.O. No.: _____

Subject: Title Search, IDC Warehouse

Notes: Back to to CUBNY 1980 gave
information to Crystal for Rick
March

File: _____

Follow-Up Action: _____

Tickle File: / / /

Follow-Up By: _____

Copy/Route To: _____

Originator's Initials: RNY

Legal : A tract of land containing 11.498 acres out
of the Henry B. Prentiss League, Abstract 56
(See Attached field notes)

Deed Chain: New ENGLAND Mutual Life Insurance Company Owner
60% interest by Deed dtd. 3/31/86 filed K. 469835 from
a) MYKAWA Road Houston B.V. Subsequent
40% interest by Deed dtd. 10/11/79 filed G. 276334 from
b) George A. Shutt Subsequent
by Deed dtd. 11/14/76 filed E. 955011
A) Robert T. Crow; Trammell Crow, Trustee for the Stuart
M. Crow management Trust and Robert E. Glaze.
B) Crow-Shutt #9, a Texas partnership
by Deed dtd. 7/1/69 filed C. 940966
Brook Theatre, Inc.,

Notes : Deed hold and Lien interests as shown on
Exhibit "B" of instrument filed G. 276334
(Tract 1 only)

CRV.
R-74.74
74.22

12 AC
E 52.20
14

SANTA FE INDI
VOL. 8

14B
10.503 AC

N20°24'W.
73.86'

CRV.
74.79
R

7 566.9

S70°25'W.
496.10

350°

15

✓ 83-Pg 655

G.C.S.F.R.R.

917.01
24° 6' 15" N
2824 AC
16B
16A
257 AC
7.666 AC

1036.27
1012.53
17 861 AC

1097.5 1129.95
18 1172

19 1649
11710
11449
19B
22-10-2-AL
6.335 AC

SEC
C. G. M. R. L.
A-306

7300-7350
BY K. H. R. J. H. D.

GF# 85-3531 RLB:ga

00 31 25 1986 1981 1444235 1 12 00

K469835

Held For
LAWYERS TITLE COMPANY OF HOUSTON
617 CAROLINE, HOUSTON, TEXAS 77001

WD

GENERAL WARRANTY DEED

042-70-1226

(Property: 448-1007)

THE STATE OF TEXAS §
COUNTY OF HARRIS § KNOW ALL MEN BY THESE PRESENTS:

13
13
THAT MYKAWA ROAD HOUSTON B.V., a Netherlands corporation (hereinafter referred to as "Grantor"), for and in consideration of the sum of Ten Dollars (\$10.00) cash in hand paid and other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged and confessed, has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY, unto NEW ENGLAND MUTUAL LIFE INSURANCE COMPANY, (hereinafter referred to, whether one or more, as "Grantee"), an undivided sixty percent (60%) interest in and to that certain tract or parcel of land in Harris County, Texas, being more particularly described on Exhibit "A" attached hereto and incorporated by this reference herein, together with an undivided sixty percent (60%) interest in and to the warehouse and all other improvements thereon, all fixtures thereon and therein, all rents relating thereto and all other rights, titles and interests appurtenant thereto (the said undivided sixty percent (60%) interest in and to the aforesaid being hereinafter referred to collectively as the "Property"). If Grantee is comprised of more than one person, the Property is conveyed hereby to each person in equal shares.

This General Warranty Deed is executed by Grantor and accepted by Grantee subject to and upon the matters set forth on Exhibit "B" attached hereto and incorporated by this reference herein, to the extent that same are in existence and applicable to the Property (hereinafter referred to collectively as the "Outstanding Interests").

The address of Grantee is 501 Boylston, Boston, Massachusetts 02117.

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, and its successors and assigns, forever, and Grantor does hereby bind itself, its successors

GSG52-14
3/21/86

042-70-1227

and assigns, to warrant and forever defend all and singular the title to the Property unto Grantee, its successors and assigns, against every person whosoever lawfully claiming or to claim the same or any part thereof, subject only to the Outstanding Interests.

EXECUTED effective as of this the 25th day of March, 1986, but actually executed on the date set forth in the acknowledgement below.

MYKAWA ROAD HOUSTON B.V. *1A*

By *Gary S. Grossman*
Gary S. Grossman, its agent
and attorney in fact

GRANTOR

THE STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared GARY S. GROSSMAN, agent and attorney in fact for MYKAWA ROAD HOUSTON B.V., a Netherlands corporation, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 24th day of March, 1986.

James J. Marsh
Notary Public in and for
the State of Texas

My commission expires
11-13-89

042-70-1228

DESCRIPTION OF PROPERTY

Property: 448-1007

An 11.498 acre tract of land being out of the Henry B. Prentiss League and being part of that certain tract conveyed to Crow Shutt No. 9 by Deed recorded in Volume 7668, Page 583, Harris County Deed Records, Harris County, Texas, and being more fully described as follows:

BEGINNING at an "X" cut in concrete for the southwest corner of the herein described 11.498 acre tract of land; said point also being the northwest corner of a certain 3.2439 acre tract and being North 0 degrees, 02 minutes East 398.00 feet from the southeast corner of the Chauncey Goodrich Survey, Abstract 306;

THENCE, South 89 degrees, 58 minutes East 1244.20 feet to a 1/2 inch iron pipe set at the southeast corner of the herein described 11.498 acre tract, said point also being the northeast corner of a certain 6.334 acre tract, said point also being in the westerly right-of-way line of Mykawa Road;

THENCE, North 13 degrees, 27 minutes West along the Westerly right-of-way line of Mykawa Road, 431.97 feet to a 1/2 inch iron rod found for the northeast corner of the herein described 11.498 acre tract;

THENCE, South 89 degrees, 58 minutes, 39 seconds West 1143.47 feet to a 1/2 inch iron rod found for the northwest corner of the herein described 11.498 acre tract, said point being in the easterly right-of-way line of a Houston Lighting and Power Company 100-foot right-of-way and in the west line of the Henry B. Prentiss League;

THENCE, South 00 degrees, 02 minutes West along the common line of the Houston Lighting and Power Company right-of-way and the herein described 11.498 acre tract, 418.94 feet to the PLACE OF BEGINNING and containing 11.498 acres of land.

ENCLOSURE "A"

042-70-1229

OUTSTANDING INTERESTS

Property No.: 448-1007

1. Easement granted to the City of Houston by instrument dated November 24, 1969 and recorded in Volume 8008, Page 377 of the Deed Records of Harris County, Texas.
2. Easement granted to the City of Houston by instrument dated November 24, 1969 and recorded in Volume 8008, Page 380 of the Deed Records of Harris County, Texas.
3. Easements granted to Houston Lighting & Power Co. by instrument dated December 8, 1971, filed under Clerk's File No. D-490931 and recorded under Microfilm Code No. 138-29-0512 of the Official Public Records of Real Property of Harris County, Texas.
4. Easement granted to the City of Houston by instrument dated September 4, 1951 and recorded in Volume 2331, Page 242 of the Deed Records of Harris County, Texas.
5. Easements described in Dedication of Private Easements dated March 23, 1973, filed under Clerk's File No. E-021207 and recorded under Microfilm Code No. 170-30-2176 of the Official Public Records of Real Property of Harris County, Texas.
6. Easement described in instrument dated February 14, 1979, filed under Clerk's File No. F-969068 and recorded under Microfilm Code No. 120-86-1729 of the Official Public Records of Real Property of Harris County, Texas.
7. Easements granted to Crow-Shutt #9 by instrument dated November 24, 1969, filed under Clerk's File No. No. F-963714 and recorded under Microfilm Code No. 119-98-2112 of the Official Public Records of Real Property of Harris County, Texas.
8. Agreement Among Tenants in Common dated November 8, 1976, a Memorandum of which is filed under Clerk's File No. E-955010 and recorded under Microfilm Code No. 153-04-2394 of the Official Public Records of Real Property of Harris County, Texas.

EXHIBIT "B"
Page 1 of 2

042-70-1230

9. The leasehold estate held by tenants in possession of space within the warehouse forming a part of the Improvements pursuant to leases, an Undivided Interest in which was this day specifically assigned to the Grantee, Purchaser or Assignee (as the case may be) named in the instrument to which this exhibit is attached.
10. Deed of Trust dated December 28, 1972, filed under Clerk's File No. D771070 and recorded under Microfilm Code No. 155-26-0904 of the Official Public Records of Real Property of Harris County, Texas from Crow-Shutt #9 to Jess Hay, Trustee, securing the payment of one note in the principal sum of \$2,000,000.00, payable as therein provided to The Mutual Benefit Life Insurance Company, and being additionally secured by Collateral Assignment of Landlord's Interest in Lease(s) dated December 28, 1972, filed under Clerk's File No. D771069 and recorded under Microfilm Code No. 155-26-0899 of the Official Public Records of Real Property of Harris County, Texas.

p396/3

STATE OF TEXAS
COUNTY OF HARRIS

I hereby certify that this instrument was FILED in the number sequence on the date and at the time expressed herein by me and was duly RECORDED in the Official Public Records of Real Property of Harris County, Texas on

MAR 31 1986



And Resumes
COUNTY CLERK,
HARRIS COUNTY, TEXAS

FILED

MAR 31 1 02 PM 1986

And Resumes
COUNTY CLERK,
HARRIS COUNTY, TEXAS

EXHIBIT "B"
Page 2 of 2

6276334

SPECIAL WARRANTY DEED

141-86-0990

THE STATE OF TEXAS §
 COUNTY OF HARRIS § KNOW ALL MEN BY THESE PRESENTS:

THAT GEORGE A. SHUTT (hereinafter referred to as "Grantor"), for consideration of the sum of Ten Dollars (\$10.00) cash in hand paid and other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged and confessed, has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY, unto NEW ENGLAND MUTUAL LIFE INSURANCE COMPANY, a Massachusetts corporation (hereinafter referred to as "Grantee"), an undivided forty percent (40%) interest in and to that certain tract or parcel of land in Harris County, Texas, being more particularly described in Exhibit "A" attached hereto and incorporated by this reference herein, and any and all other property owned or claimed by Seller adjacent thereto, together with an undivided forty percent (40%) interest in and to all buildings and all other improvements thereon, all fixtures thereon and therein, all rents relating thereto and all other rights, titles and interests appurtenant thereto (the said undivided forty percent (40%) interests in and to the aforesaid being hereinafter referred to collectively as the "Property").

This Special Warranty Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to and upon, but only upon, forty percent (40%) of the outstanding principal balance on those certain Promissory Notes described on Exhibit "B" attached hereto and incorporated by this reference herein, and the other matters set forth on said Exhibit "B", to the extent that same are in existence and applicable to the Property (hereinafter referred to collectively as the "Outstanding Interests").

It is expressly understood and agreed that this is a "subject to" conveyance only, and that Grantee has not, to any extent and in any respect, assumed any liability of any nature under the aforesaid Promissory Notes or under any other instrument described on Exhibit "B", including specifically but without limitation, any agreement to repay or perform, or any liability for the non-payment or non-performance of, either the indebtedness evidenced or secured thereby or any other obligation of any party thereto.

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, and its successors and assigns, forever, and Grantor does hereby bind himself, his heirs, personal representatives, successors and assigns, to warrant and forever defend all and singular the title to the Property unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Grantor but not otherwise, subject only to the Outstanding Interests.

EXECUTED this the 26th day of September, 1979.


 GEORGE A. SHUTT

GRANTOR

RETURN TO
 MURRAY MCCOY
 617 CAROLINE
 HOUSTON, TEXAS 77002

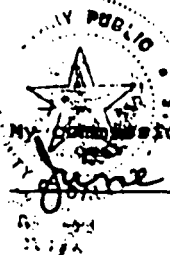
5841-79

141-96-0991

THE STATE OF TEXAS §
COUNTY OF Dallas §

BEFORE ME, the undersigned authority, on this day personally appeared GEORGE A. SHUTT, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 26 th day of September, 1979.



Jessie Ayala
Notary Public in and for
Dallas County, Texas

EXHIBIT ATRACT ONE:

A tract of land containing 499,490 square feet or 11.45 acres of land, more or less, out of the H. B. Prentiss League, Abstract No. 100 in Harris County, Texas, being more particularly described by metes and bounds as follows:

BEGINNING at a 1 inch iron pipe at the Southeast corner of the Chauncey Goodrich Survey in the City of Houston, Harris County, Texas, said point being in the East line of the Houston Lighting & Power Company, 100 foot right-of-way, and the West line of Henry B. Prentiss League;

THENCE North 00° 02' East along the East line of the said Houston Lighting & Power Company 100 foot right-of-way, a distance of 390.0 feet, more or less, to the Southwest corner of the tract herein described and the place of beginning;

THENCE continuing N. 00° 02' East a distance of 418.54 feet to a point for corner and the Northwest corner of the herein described tract;

THENCE South 89° 58' East a distance of 1143.41 feet more or less, to a point for corner, said point being on the West line of Mykawa Road;

THENCE South 13° 27' East a distance of 431.81 feet, more or less, to a point for corner and the Southeast corner of the herein described tract;

THENCE North 89° 58' West a distance of 1244.82 feet, more or less, to the PLACE OF BEGINNING.

TRACT TWO:

All that certain 5.72 acres of land out of Lot 2, Block 3, Highland Industrial Park North according to the plat thereof filed at Volume 142, Page 4 Harris County Map Records as being more particularly described by metes and bounds as follows:

Commencing at the southeast corner of said Lot 2; Thence N 00° 34' E - 30' to a 1/2" iron rod marking the POINT OF BEGINNING of the herein described parcel;

THENCE N 89° 26' W - 546.82' to a 1" iron pipe marking the Point of Curvature of a curve to the right having a central angle of 32° 39' 59", a radius of 155.70;

THENCE along said curve for an arc length of 88.77' to a 1" iron pipe marking the Point of Compound Curvature of a curve having a central angle of 57° 27' 57", a radius of 293.31';

THENCE along said curve for an arc distance of 294.18' to a 5/8" iron rod marking the Point of Tangency;

THENCE N 00° 42' E - 35.82' to a 5/8" iron rod marking the Point of Curvature of a curve to the right having a central angle of 6° 59' 01", a radius of 298.31';

THENCE along said curve for an arc distance of 36.36' to a 5/8" iron rod for corner;

THENCE S 89° 18' E - 763.51', along the south line of a 4.175 acre tract, to a 1/2" iron rod for corner;

41-96-9993

THENCE S 00° 34' W - 342.53', along the west right-of-way line of Greengrass Drive (60' wide), to the POINT OF BEGINNING and containing 5.72 acres of land, more or less.

TRACT THREE:

All that certain 4.175 acres of land out of Lot 2, Block 3 Highland Industrial Park North, Harris County, Texas, being more particularly described by metes and bounds as follows:

Commencing at the southeast corner of said Lot 2; Thence N 00° 34' E - 372.53' to a 1/2" iron rod marking the POINT OF BEGINNING of the herein described parcel;

THENCE N 89° 18' W - 763.51', along the north line of a 5.72 acre tract, to a 5/8" iron rod for corner marking a point on a curve having a central angle of 83° 00' 59", a radius of 298.31', the center of said curve being located on a radial line bearing S 82° 18' 59" E from said point;

THENCE along said curve in a northeasterly direction for an arc length of 432.22' to a 5/8" iron rod marking the Point of Tangency;

THENCE S 89° 18' E - 369.88' to a 5/8" iron rod marking the Point of Curvature of a curve to the left having a central angle of 13° 56' 48", a radius of 401.98';

THENCE along said curve for an arc distance of 97.85' to a 5/8" iron rod for corner;

THENCE S 00° 34' W - 273.89', along the west right-of-way line of Greengrass Drive (60' wide), to the POINT OF BEGINNING and containing 4.175 acres of land, more or less.

TRACT FOUR:

All that certain property conveyed by deed from Warehouse Leasing Corporation to Crow-Shutt #9, a Texas general partnership, filed for record in the Office of the County Clerk of Harris County, Texas under Clerk's File No. D433440 and recorded under Film Code No. 135-21-1920 of the Official Public Records of Real Property of Harris County, Texas and described as follows:

A tract of land out of that certain 16.840 acre tract, more or less, out of the Peter Wilson Tract in the James Wharton Survey, A-871, Harris County, Texas, and being a part of that certain 32.559 acre tract of land conveyed by J. G. Miller and wife to Edmund L. Lorehn and Thomas H. Shartle by Deed dated April 15, 1946, recorded in Volume 1441, Page 306 of the Deed Records of Harris County, Texas, said 16.840 acres of land being the same tract described in Deed from the Museum of Fine Arts of Houston to Warehouse Leasing Corporation dated January 5, 1970, recorded in Volume 7883, Page 76, of the Deed Records of Harris County, Texas:

BEING 8.250 acres of land out of said 16.840 acre tract, and being more particularly described as follows:

BEGINNING at a point on the East right-of-way line of Silber Road, said point being the Southwest corner of said 16.840 acre tract;

THENCE North 0° 30' East, along the East right-of-way line of Silber Road, a distance of 370.47 feet to the Northwest corner of said 16.840 acre tract;

41-86-0994

THENCE South 88° 28' East, along the North line of said 16.840 acre tract, a distance of 969.74 feet to a point for corner in the center line of that certain 5 foot wide easement granted to United Gas Corporation by Deed dated March 17, 1958, recorded in Volume 3476, Page 182 of the Deed Records of Harris County, Texas;

THENCE South 0° 21' 30" West, along the center line of said United Gas Corporation 5 foot easement, a distance of 370.49 feet to a point for corner on the South line of said 16.840 acre tract;

THENCE North 88° 28' West, along the South line of said 16.840 acre tract a distance of 970.66 feet to the PLACE OF BEGINNING and containing 8.250 acres of land.

EXHIBIT BTITLE EXCEPTIONS WITH RESPECT TO TRACT ONE:

1. The lien for ad valorem taxes for 1970
in which the property is in possession as tenants under recorded or unrecorded leases.
3. Unobstructed water line easement 10 feet wide of which 5 feet is located along the South 5 feet of the West 360.5 feet of the Property granted to the City of Houston by instrument dated November 24, 1969, recorded in Volume 8008, Page 377, of the Deed Records.
4. Unobstructed water line easement 10 feet wide of which 5 feet is located along the South 5 feet of the East 883.7 feet of the Property granted to the City of Houston by instrument dated November 24, 1969, recorded in Volume 8008, Page 380 of the Deed Records.
5. Unobstructed easement 10 feet wide located 15 feet south of the north property line and extending in a westerly direction from the east property line a distance of 610 feet and an unobstructed aerial easement 5 feet wide from a plane 20 feet above the ground upward located south of and adjacent thereto granted to Houston Lighting & Power Co. by instrument dated December 8, 1971, filed December 30, 1971, under Clerk's File No. D490931, F.C. 138-29-0512.
6. Unobstructed easement 10 feet wide located on the west property line a distance of 44.6 feet south of the northwest corner and extending in an easterly direction for a distance of 14.4 feet and an unobstructed aerial easement 5 feet wide from a plane 20 feet above the ground upward located adjacent thereto granted to Houston Lighting & Power Co. by instrument dated December 8, 1971, filed December 30, 1971, under Clerk's File No. D490931, F.C. 138-29-0512.
7. Sanitary sewer easement 15 feet wide located along the north property line granted to the City of Houston by instrument recorded in Volume 2331, Page 242 of the Deed Records of Harris County, Texas.
8. Private Easement 35 feet wide located along the south property line for pedestrian and vehicular passage as described in that certain Dedication of Private Easements dated March 23, 1973, filed November 14, 1973, under County Clerk's File No. E021207, F.C. 170-30-2176.
9. Perpetual and non-exclusive easement for the purpose of a railroad tract, location described by metes and bounds therein, granted by instrument dated February 14, 1979, filed February 15, 1979, under County Clerk's File No. F969068, F.C. 120-86-1729.
10. Unobstructed easements for 2 sanitary sewer lines and 1 gas line and an easement for road or street with the right to install and maintain a water line in said road or street all as shown on plat attached thereto granted to Crow-Shutt #9 by instrument dated November 24, 1969, filed February 12, 1979, under County Clerk's File No. F963714, F.C. 119-98-2112.
11. Deed of Trust dated December 28, 1972, filed December 29, 1972, under County Clerk's File No. D771070, F.C. 155-26-0904, executed by Crow-Shutt #9, a Texas general partnership, in

favor of Jess Hay, Trustee, securing the payment of the note in the principal amount of \$2,000,000.00, payable as therein provided to the order of THE MUTUAL BENEFIT LIFE INSURANCE COMPANY and additionally secured by a Collateral Assignment of Landlord's Interest in Leases recorded under Clerk's File No. D771069, F.C. 155-26-0000.

12. The terms, conditions and provisions contained in that certain Memorandum of Agreement Among Tenants in Common as set forth in instrument filed November 16, 1976, under Clerk's File No. E955010, F.C. 153-04-2394.

TITLE EXCEPTIONS WITH RESPECT TO TRACTS TWO AND THREE:

1. Rights of parties in possession as tenants under recorded or unrecorded leases. (As to Both Tracts).
2. The lien for ad valorem taxes for 1979. (As to Both Tracts).
3. A 50 foot building set back along the east boundary of the Property adjacent to Greengrass Drive as shown on the map recorded in Volume 142, Page 4 of the Map Records of Harris County, Texas. (As to Both Tracts).
4. A 1/16th non-participating royalty interest in and to all of the oil, gas and other minerals on, in, under or that may be produced from the Property, reserved by H. Volmer Niemann in Deed recorded in Volume 3266, Page 580 of the Deed Records of Harris County, Texas. (As to Both Tracts).
5. An undivided 1/2 interest in and to all of the oil, gas and other minerals on, in, under or that may be produced from the Property, reserved by Donland Development Company in Deed recorded in Volume 7394, Page 266 of the Deed Records of Harris County, Texas, the surface rights having been waived therein. (As to Both Tracts).
6. Deed of Trust dated November 22, 1968, recorded in Volume 6586, Page 609 of the Map Records, executed by Crow-Shutt #8, a partnership in favor of George W. Kesler, Trustee, securing the payment of one note in the principal amount of \$530,000.00, payable as therein provided to the order of The Prudential Insurance Company of America, and additionally secured by an Assignment of Rentals recorded in Volume 2184, Page 418 of the Contract Records and by Assignment of Leases recorded in Volume 2184, Pages 414, 422 & 426 of the Contract Records of Harris County, Texas. (As To Tract Three Only).
7. Deed of Trust dated August 4, 1969, recorded in Volume 6872, Page 118 of the Map Records, executed by Crow-Shutt #8, a partnership in favor of Richard Coselli, Trustee, securing the payment of one note in the principal amount of \$835,000.00, payable as therein provided to the order of The Prudential Insurance Company of America, and additionally secured by an Assignment of Rents recorded in Volume 2242, Page 480 of the Contract Records and by Assignment of Leases recorded in Volume 2242, Pages 452, 456, 460, 464, 468, and 476 of the Contract Records. (As to Tract Two Only).
8. The terms, conditions and provisions contained in that certain Memorandum of Agreement Among Tenants in Common as set forth in instrument filed November 16, 1976, under Clerk's File No. E955023, F.C. 153-04-2469 and E955013, F.C. 153-04-2411. (As to Both Tracts).

TITLE EXCEPTIONS WITH RESPECT TO TRACT FOUR:

1. Rights of parties in possession as tenants under recorded and unrecorded leases.
2. The lien for ad valorem taxes for 1979.
3. Easement thirty feet wide along the south boundary of the Property, together with the right to use such easement for waterlines, sewer lines and power lines or other utilities, as granted in instrument from W. H. Francis, Jr., and Reinforced Plastics Co. to Globe Box Company recorded in Volume 3476, Page 381 of the Deed Records of Harris County, Texas.
4. Drainage easement twenty feet wide along the north boundary of the Property granted to Harris County Flood Control District by Edmond L. Lorrehn and Thos. H. Shartle by instrument recorded in Volume 2444, Page 234, of the Deed Records of Harris County, Texas.
5. An easement for a gas pipeline five feet wide over and across the south five of the north twenty-five feet of the Property as granted to United Gas Corporation by Edmond L. Lorehn and Thomas E. Shartle in instrument recorded in Volume 2225, Page 341, of the Deed Records of Harris County, Texas.
6. Easement for gas pipelines 5 feet wide along the east boundary of the Property, as granted in instrument from W. H. Francis Jr., to United Gas Corporation recorded in Volume 3476, Page 182 of the Deed Records of Harris County, Texas.
7. Railroad spur track across the Property as shown on survey plat of the Property by Shaner Hicks and Sherry Consulting Engineers, Houston, Texas, dated June 22, 1973, and resurveyed September 18, 1976.
8. An unobstructed easement 10 feet wide at three separate locations on the Property and an unobstructed aerial easement 20 feet wide from a plane 20 feet above the ground upward with the same centerline as said 10 foot easements as granted by Crow-Shutt to Houston Lighting & Power Co. in instrument filed of record in the office of the County Clerk of Harris County, Texas, under Clerk's File No. D519076 and recorded under F.C. 140-23-1892, of the Official Public Records of Real Property of Harris County, Texas.
9. An easement for utilities 10 feet wide, the north boundary of such easement being located 20 feet south of the north boundary of the Property, said easement extending the entire east-west length of the Property, as established by instrument executed by Crow-Shutt and Crow-Shutt #11 filed for record in the office of the County Clerk of Harris County, Texas, under Clerk's File No. D665509 and recorded under F.C. 148-39-246 of the Official Public Records of Real Property of Harris County, Texas.
10. Deed of Trust dated September 27, 1973, recorded under Clerk's File No. D990298, F.C. 168-32-2242, executed by Crow-Shutt #9, a Texas general partnership in favor of Richard Coselli, Trustee, securing the payment of one note in the principal amount of \$1,350,000.00, payable as therein provided to The Prudential Insurance Company of America, and additionally secured by a Conditional Assignment of Rentals recorded under Clerk's File No. D990296, F.C. 168-32-2136.

141-86-0998

and an Assignment of Leases recorded under Clerk's File No. D990297, F.C. 168-32-2239. UCC Financing Statement filed in conjunction with said Deed of Trust under Clerk's File No. 781766, F.C. 258-68-1251, and refiled on August 3, 1978, under Clerk's File No. F708163, F.C. 102-87-1829.

11. The terms, conditions and provisions contained in that certain Condominium of Agreement Among Tenants in Common as set forth in instrument filed November 16, 1976, under Clerk's File No. E955006, F.C. 153-04-2375.

STATE OF TEXAS
COUNTY OF HARRIS

I hereby certify that this instrument was FILED in File Number E955006 on the date and at the time stamped herein by me and was duly RECORDED, in the Official Public Records of Real Property of Harris County, Texas on

OCT 11 1979



John L. Anderson
COUNTY CLERK,
HARRIS COUNTY, TEXAS

FILED
OCT 11 3 10 PM 1979
John L. Anderson
COUNTY CLERK,
HARRIS COUNTY, TEXAS

91

NOV-16-76 54104

E955011 LS B.PD

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E955011

WD
DD

GENERAL WARRANTY DEED

(Property: 448-1007)

153-04-2398

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

KNOW ALL MEN BY THESE PRESENTS:

THAT ROBERT T. CROW; TRAMMELL CROW, TRUSTEE FOR THE
STUART M. CROW MANAGEMENT TRUST; and ROBERT E. GLAZE

(hereinafter referred to, whether one or more, as "Grantor"),
for and in consideration of the sum of Ten Dollars (\$10.00)
cash in hand paid and other good and valuable considerations,
the receipt and sufficiency of which are hereby acknowledged
and confessed, has GRANTED, BARGAINED, SOLD and CONVEYED,
and by these presents does GRANT, BARGAIN, SELL and CONVEY,
unto MYKAWA ROAD HOUSTON B.V.

a Netherlands corporation (hereinafter referred to as "Grantee"),
an undivided sixty percent (60%) interest in and to that
certain tract or parcel of land in Harris County, Texas,
being more particularly described in Exhibit "A" attached
hereto and incorporated by this reference herein, and any and
all other property owned or claimed by Seller adjacent thereto,
together with an undivided sixty percent (60%) interest
in and to the warehouse and all other improvements thereon,
all fixtures thereon and therein, all rents relating thereto
and all other rights, titles and interests appurtenant
thereto (the said undivided sixty percent (60%) interests
in and to the aforesaid being hereinafter referred to col-
lectively as the "Property").

This General Warranty Deed and the conveyance herein-
above set forth is executed by Grantor and accepted by
Grantee subject to and upon, but only upon, sixty
percent (60%) of the outstanding principal balance on that
certain Promissory Note described on Exhibit "B" attached
hereto and incorporated by this reference herein, and the
other matters set forth on said Exhibit "B", to the extent
that same are in existence and applicable to the Property
(hereinafter referred to collectively as the "Outstanding
Interests").

It is expressly understood and agreed that this is a
"subject to" conveyance only, and that Grantee has not, to
any extent and in any respect, assumed any liability of any
nature under the aforesaid Promissory Note or under any
instrument described on Exhibit "B" or any other instrument,
but without limitation, no agreement, obligation, liability
or any liability for the non-payment or non-performance of
either the indebtedness evidenced or secured thereby or any
other obligation of any party thereto.

TO HAVE AND TO HOLD the Property, together with all and
singular the rights and appurtenances thereunto in anywise
belonging, unto Grantee, and its successors and assigns,

forever, and Grantor does hereby bind itself, its successors and assigns, to warrant and forever defend all and singular the title to the Property unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, subject only to the Outstanding Interests.

EXECUTED this the 9th day of November, 1976.

153-04-2389

Undivided Interest
Being Conveyed

20 %

20 %

20 %

 %

60 %

Robert T. Crow
ROBERT T. CROW

, here acting by and

Trammell Crow Management Trust
TRAMMELL CROW, TRUSTEE FOR THE STUART
M. CROW MANAGEMENT TRUST

Robert E. Glaze
ROBERT E. GLAZE

GRANTOR

THE STATE OF TEXAS §
COUNTY OF Dallas §

BEFORE ME, the undersigned authority, on this day personally appeared Trammell Crow, as Attorney-in-fact for ROBERT T. CROW, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, and in the capacity therein stated.
GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 10 day of November, 1976.

RECORDING'S MEMORANDUM:
This instrument is not subject to recording restrictions due to certain or gross, equal, divided, joint, etc., or due to minority. All interests, claims and charges were present at time instrument was filed and recorded.

Sue Bishop
Notary Public in and for
Dallas County, Texas

My commission expires
June 1, 1977 DEC 9 1977

THE STATE OF TEXAS §
COUNTY OF Dallas §

BEFORE ME, the undersigned authority, on this day personally appeared TRAMMELL CROW, the Trustee of THE STUART M. CROW MANAGEMENT TRUST, known to me to be the person and trustee whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said trust.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 10 day of November, 1976.

Sue Bishop
Notary Public in and for
Dallas County, Texas

My commission expires
DEC 9 1977

THE STATE OF TEXAS §
COUNTY OF Dallas §

BEFORE ME, the undersigned authority, on this day personally appeared ROBERT E. GLAZE, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9th day of November, 1976.

Hope Hamilton
Notary Public in and for
Dallas County, Texas

My commission expires
June 1, 1977

153-04-2400

DESCRIPTION OF PROPERTY

Property: 448-1007

An 11.498 acre tract of land being out of the Henry B. Prentiss League and being part of that certain tract conveyed to Crow Shutt No. 9 by Deed recorded in Volume 7668, Page 583, Harris County Deed Records, Harris County, Texas, and being more fully described as follows:

BEGINNING at an "X" cut in concrete for the southwest corner of the herein described 11.498 acre tract of land; said point also being the northwest corner of a certain 3.2439 acre tract and being North 0 degrees, 02 minutes East 398.00 feet from the southeast corner of the Chauncey Goodrich Survey, Abstract 306;

THENCE, South 89 degrees, 58 minutes East 1244.20 feet to a 1/2 inch iron pipe set at the southeast corner of the herein described 11.498 acre tract, said point also being the northeast corner of a certain 6.334 acre tract, said point also being in the westerly right-of-way line of Mykawa Road;

THENCE, North 13 degrees, 27 minutes West along the Westerly right-of-way line of Mykawa Road, 431.97 feet to a 1/2 inch iron rod found for the northeast corner of the herein described 11.498 acre tract;

THENCE, South 89 degrees, 58 minutes, 39 seconds West 1143.47 feet to a 1/2 inch iron rod found for the northwest corner of the herein described 11.498 acre tract, said point being in the easterly right-of-way line of a Houston Lighting and Power Company 100-foot right-of-way and in the west line of the Henry B. Prentiss League;

THENCE, South 00 degrees, 02 minutes West along the common line of the Houston Lighting and Power Company right-of-way and the herein described 11.498 acre tract, 418.24 feet to the PLACE OF BEGINNING and containing 11.498 acres of land.

EXHIBIT "A"

153-04-2401

OUTSTANDING INTERESTS

Property: 448-1007

1. Deed of trust dated December 28, 1972 executed by Crow-Shutt #9, a Texas general partnership, filed for record in the Office of the County Clerk of Harris County, Texas under Clerk's File No. D 771070 and recorded under Film Code No. 155-26-0904 of the Official Public Records of Real Property of Harris County, Texas, securing payment of one certain Deed of Trust Note (the "Mutual Benefit Note") of even date therewith in the original principal amount of \$2,000,000.00, bearing interest at the rate of 9-1/8% per annum, executed by Crow-Shutt #9 payable to the order of The Mutual Benefit Life Insurance Company, with interest only being payable on February 1, 1973 and on the first day of each calendar month thereafter to and including June 1, 1973, and thereafter being payable in consecutive monthly installments of principal and interest in the amount of \$17,316.21 each beginning July 1, 1973, with the balance of all principal and accrued interest thereon being finally due and payable on August 1, 1996.
2. Collateral Assignment of Landlord's Interest in Lease(s) dated December 28, 1972, executed by Crow-Shutt #9 in favor of The Mutual Benefit Life Insurance Company, securing payment of the Mutual Benefit Note, said Collateral Assignment of Landlord's Interest in Lease(s) having been filed for record in the Office of the County Clerk of Harris County, Texas under Clerk's File No. D 771069 and recorded under Film Code No. 155-26-0899 of the Official Public Records of Real Property of Harris County, Texas.
3. An easement for sanitary sewer purposes fifteen feet (15') wide along the north boundary of the Property granted to the City of Houston, Texas by Mrs. E. B. Crane in instrument recorded in Volume 2331 at Page 242 of the Deed Records of Harris County, Texas.
4. A ten foot (10') wide water line easement granted to the City of Houston, Texas by Crow-Shutt #9 in instrument recorded in Volume 8008 at Page 377 of the Deed Records of Harris County, Texas.
5. A ten foot (10') wide water line easement granted to the City of Houston, Texas by Crow-Shutt #9 in instrument recorded in Volume 8000 at Page 380 of the Deed Records of Harris County, Texas.
6. A private easement thirty-five feet (35') wide along the southerly boundary of the Property for pedestrian and vehicular passage as described in that certain Dedication of Private Easements dated March 23, 1973

EXHIBIT "B"

153-04-2403

153-04-2402

located by a survey of 19 and a survey of 111, located in the Office of the County Clerk of Harris County, Texas under Clerk's File No. 22-021207 and recorded under film code No. 270-30-2176 of the Office of Public Records of Real Property of Harris County, Texas.

The leased premises held by tenants in possession of space within the warehouse forming a part of the improvement pursuant to leases, an undivided interest in which was this day specifically assigned to the grantee, Purchaser or Assignee (in the latter may be named in the instrument to which this exhibit is attached).

153-01-2103

EXHIBIT D-4 2 13 2

RETURN TO
F. G. RAYMOND, JR.
1721 GUSTIN
HOUSTON, TEXAS 77002

0940006

DEED FILE

vol 7668 - 553

THE STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

KNOW ALL MEN BY THESE PRESENTS:

THAT BROOKS THEATRE, INC., a Texas corporation, acting herein by and through its duly authorized officers, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration to Grantor paid by CROW-SHUTT #9, a Texas partnership composed of Robert T. Crow, Robert E. Glaze, George A. Shutt and Robert S. Wilson, hereinafter called Grantees, and the further consideration of the execution and delivery by Grantees to Grantor of their certain promissory note described as follows:

One promissory note bearing even date herewith for the principal sum of Five Hundred Eighty-eight Thousand Six Hundred Sixty-eight and 70/100 Dollars (\$588,668.70), executed by Grantees herein and a co-signer, payable to the order of Grantor herein in five (5) equal annual installments of principal of \$117,733.74 each, the first of said installments being due and payable on the 1st day of July, 1975, and a like installment of principal being due and payable on the same day of July of each succeeding calendar year thereafter until said note is paid in full, said note bearing interest from date until maturity at the rate of 6 1/2% per annum, payable annually as it accrues, the first installment of interest being due and payable on the 1st day of July, 1970; said note providing for interest at the rate of 10% per annum on all past due principal and interest, for acceleration of maturity at the option of the holder thereof in the event of default in the payment of any installment of interest or principal when due thereon, and for 10% attorney's fees in event said note be placed in the hands of an attorney for collection or be collected by suit or other legal proceedings; said note further providing for certain prepayment privileges and for partial releases with respect to portions of the hereinafter described property under terms and conditions set out therein; the payment of said note being secured by Vendor's Lien hereinafter retained, as well as by the lien of a Deed of Trust of even date herewith from the Grantees herein to William P. Fonville, Trustee for holder of said note;

has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto CROW-SHUTT #9, a Texas partnership composed of Robert T. Crow, Robert E. Glaze, George A. Shutt and Robert S. Wilson, Grantees herein, the following described property lying and being situated in Harris County, Texas, to-wit:

106-37-2011

522

58 JUL 1 PM 3 41

Deed
Fonville
100-117-111

DEED RECORDS
VOL 7668 584

A tract of 22.609 acres of land out of the Henry B. Prentiss League, Abstract No. 56, in Harris County, Texas, described by metes and bounds as follows:

BEGINNING at a one inch iron pipe at the southeast corner of the City of Houston, Harris County, Texas, said point being in the east line of the Houston Lighting and Power Company 100 foot right-of-way, and in the west line of the Henry B. Prentiss League and marking the southwest corner of this tract;

THENCE north 00°02' east along the east line of the said Houston Lighting and Power Company 100 foot right-of-way and the west line of the said Henry B. Prentiss League, a distance of 816.54 feet to a one inch iron rod for the northwest corner of this tract;

THENCE north 89°58' east along the south line of the Frank N. Hoskins 5 acre tract described in deed recorded Volume 924, Page 430, of the Deed Records of Harris County, Texas, a distance of 1143.41 feet to a 1/2 inch iron rod in the west line of Mykawa Road, based on a width of 80 feet, for the northeast corner of this tract;

THENCE south 13°27' east along the west line of Mykawa Road, based on a width of 80 feet, a distance of 795.35 feet to a 1/2 inch iron rod for the southeast corner of this tract, said point being at the intersection of the west line of said Mykawa Road with the projection in an easterly direction of the north line of Block 37 of EDGEWOOD, SECTION 9, a Subdivision as shown on map recorded Volume 45, Page 65, of the Map Records of Harris County, Texas, said point being also northeast corner of a tract marked "Acreage" on the mentioned map of EDGEWOOD, SECTION 9;

THENCE south 88°06'59" west along the said projection of the north line of said Block 37 of EDGEWOOD, SECTION 9, and along the north line of said block which is also north line of EDGEWOOD, SECTION 9, as shown on the above mentioned map, a distance of 1329.70 feet to the PLACE OF BEGINNING, said tract being the same tract and parcel of land conveyed by O. K. Theatres Corporation to Brooks Theatre, Inc., by deed recorded Volume 5640, Page 46, of the Deed Records of Harris County, Texas, after allowing for the widening of Mykawa Road from a width of 60 feet to 80 feet by a right-of-way deed from Bess Burkett Crane to Harris County, Texas, dated November 29, 1935, recorded Volume 996, Page 624, of the Deed Records of Harris County, Texas, to which deeds reference is here made.

This conveyance is made, executed and delivered by Grantor and accepted by Grantees subject to a sanitary sewer easement along and across and under the north 15 feet of the above described tract and parcel of land, granted to the City of Houston by deed dated September 4, 1951, recorded Volume 2331, Page 242, of the Deed Records of Harris County, Texas.

TO HAVE AND TO HOLD the above described property and premises together with all and singular the rights and appurtenances thereto in anywise belonging,

106-37-2612

unto Grantees, their successors, heirs, legal representatives and assigns forever, and Grantor, subject to the easement hereinabove set forth and taxes for the current year, does hereby bind itself and its successors to WARRANT and HOWEVER DEED OF TRUST shall be a lien in and to the property and premises unto Grantees, their successors, heirs, legal representatives and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

But it is expressly agreed and stipulated that the Vendor's Lien and superior title are retained and reserved by Grantor in, upon and against the above described property and premises until the above described note, both principal and interest, is fully paid, according to its face, tenor, effect and reading, when this deed shall become absolute. It is further agreed and stipulated that foreclosure of the lien of the Deed of Trust additionally securing the payment of said note, either by exercise of the power of sale contained therein or otherwise, shall also operate as foreclosure of the Vendor's Lien herein retained.

All taxes levied and assessed against the hereinabove described property for the year 1969 have, by agreement of the parties hereto, been prorated as of May 1, 1969, and Grantees accept title subject to the taxes for such year.

EXECUTED this 20th day of June, A. D., 1969.

Attest:

BROOKS THEATRE, INC.

By

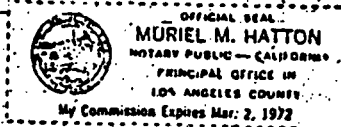
President

Secretary

THE STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

BEFORE ME, the undersigned authority, on this day personally appeared I. B. ADELMAN, President of Brooks Theatre, Inc., a corporation, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed and in the capacity therein stated and as the act and deed of said corporation.

GIVEN under my hand and seal of office, this 26th day of June, A. D., 1969.



Muriel M. Hatton
Notary Public in and for
LOS ANGELES COUNTY, CALIFORNIA

RETURN TO:
P. G. ECKELS
617 CAROLINE
HOUSTON, TEXAS 77002
-3745

DEED FILED
Vol 7668
Page 585

JUN-37-2013

A special meeting of the Board of Directors of Brooks Theater, Inc., pursuant to waiver of notice, was held at Dallas, Texas on June 13, 1974. Present were L. B. Adelman, Hyman Glickman and Ida A. Rosenbaum. L. B. Adelman presided.

On motion duly made and seconded the following resolution was unanimously adopted.

RESOLVED, that Brooks Theater, Inc. sell and convey to Crow-Shutt #9, a Texas partnership composed of Robert T. Crow, Robert E. Glaze, George A. Shutt and Robert S. Wilson, or its nominee, the tract of approximately 22.610 acres of land out of the Henry B. Prentiss League, Abstract No. 56, in Harris County, Texas, owned by the corporation, for and in consideration of the sum of \$738,668.70 (subject to adjustment of 75 cents per square foot for any difference in area) payable at closing partly in cash, and by the execution and delivery of a promissory note payable to the order of the corporation in the principal sum of the balance of the purchase price, said promissory note to bear interest at the rate of 6-1/2% per annum payable annually on the anniversary date of the note, said note to be payable in five equal annual installments, the first of which shall be due and payable on July 1, 1975 with like and succeeding installments due and payable on the same day in the same month of each succeeding calendar year thereafter until the note is paid in full, said note to be executed by the said partners and guaranteed by the personal endorsement of Trammel Crow, said note to bear interest from date until maturity at the rate of 6-1/2% per annum payable annually on the anniversary date of the note as it accrues with provision of interest of 10% per annum after maturity, acceleration of maturity at option of holder in the event of default in the payment of principal or interest when due, and for 10% attorneys fee in event said note be placed in

SELLER RELEASE
7088 - 586

100-37-2014

the hands of an attorney for collection or be collected by
suit or other legal proceedings, with provision for pre-
payment privilege and for partial release of property
securing the payment of the note, the payment of said
note to be secured by a vendor's lien retained by the
seller of the property and that I. B. Adelman, president
of the corporation be and he is hereby authorized on behalf
of the corporation to make and consummate such sale and
to execute any and all documents, including warranty deed,
necessary or appropriate in the premises and to determine
and agree to any terms and conditions of prepayment and
for release of property from the lien retained on the property
and covered by the deed of trust as he shall in the exercise of
his discretion and judgment determine to be appropriate.

There being no further business to come before the Board, the meeting
was adjourned.

I. B. Adelman
President

He J. Koenig
Secretary

RECORDED
7608 587

106-37-7015

Threshold Limit Values (TLV)
for
SCI Chemical Constituents
International Distribution Corporation
(Formerly known as AID Warehouse)

Chemical	CAS #	TLV
Benzene	71-43-2	1 ppm
Chloral	75-87-6	-
Chlorobenzene	108-90-7	75 ppm
Dichlorobenzene (m)	541-73-1	-
(o)	95-50-1	50 ppm/300 mg/cubic meter in air
(p)	106-46-7	75 ppm in air
Dichlorophenoxyacetic Acid	94-75-7	10 mg/cubic m
DDT	-	1 mg/cubic m
Diethyl Sulfate	64-67-5	-
Dimethyl Sulfate	77-78-1	0.1 ppm (10 ppm IDLH)
Epichlorohydrin	106-89-8	2 ppm in air
Ethylene Dibromide	106-93-4	(200 ppm in air) (400 ppm IDLH)
a-Hydroxyisobutyronitrile	75-86-5	10 ppm
(Isobutyronitrile)	78-82-0	-
Hydrocyanic Acid	74-90-8	10 ppm in air
Methyl Alcohol	67-56-1	200 ppm in air
Naptha	8030-30-6	Depends on Contents of Aromatic Hydrocarbons
Paraquat	4685-14-7	0.1 mg/cubic m
Parathion	56-38-2	0.1 mg/cubic m, air (20 mg/cubic m IDLH)
Toxaphene	-	500 ug/cubic m (skin)
1,1,1-Trichloroethane	71-55-6	350 ppm in air
1,1,2-Trichloroethane	79-00-5	10 ppm in air
Trimethyl Phosphate	512-56-1	-
m-Xylene	108-38-3	100 ppm
o-Xylene	95-47-6	100 ppm
p-Xylene	106-42-3	100 ppm



A-INTERNATIONAL DISTRIBUTION CORP.
7198 MYKAWA HOUSTON, TX. 77033
(713) 645-4080



Established 1875

RECEIVED. Subject to the classifications and tariffs filed in effect on the date of the issue of the Bill of Lading, the property described below in apparent good order except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at anytime interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail water shipment or (2) in the applicable motor carrier classification of tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariffs which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

EMERGENCY PHONE CHEMTREC ----->

(800) 424-9300
WASH., D.C. 483-7616
OUTSIDE U.S.A. (202) 483-7616

NUMBERS -----> (Day or Night)

LEGEND

- 1 DOT PROPER SHIPPING NAME
- 2 GENERIC NAME
- 3 DOT HAZARD CLASS
- 4 HAZARDOUS CONTAINER LABEL
- 5 HAZARDOUS PLACARD
- 6 FREIGHT CLASSIFICATION CODE
- 7 FREIGHT CLASSIFICATION DESCRIPTION
- 8 UN-NA NUMBER

"If the Shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' NOTE - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

"The fibre boxes, barrels, drums, carboys, cans, paper bags, pails or tubs used for this shipment conform to the specifications set forth in box and drummaker's certificate hereon, and all other requirements of the classification or tariff which governs the transportation of this shipment.

"Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Department of Transportation."

Mail or street address of consignee - For purpose of notification only)

C.O.D. SHIPMENT C.O.D. Amt. Collection Fees Total Charges

PICKED BY *Price* MO. DAY YR. CHECKED BY *Price* MO. DAY YR. CARRIER/ROUTE

SHIPPER OREGON/CALIFORNIA CHEM. ACCT. REF # VIA: CPU B/L NUMBER
CONSIGNEE TO OREGON/CALIFORNIA CHEM. VERBAL/DOUG 6572
29454 MEADOWVIEW RD. CUST. REF # PRINT DATE
JUNCTION CITY, OR. 97448 11/23/87

5 DRUMS OF TILLAM CONTAINS: 3 55 GAL. DRUMS, 1 30 GAL. & 36 1 GAL PAILS.

PACKAGES NO-TYPE	H/M	DESCRIPTION (DO NOT ABBREVIATE)	RELEASE VALUE	LOT NUMBER	FREIGHT CLASS	LOCATION	WEIGHT (SUB TO COM)
26 DRM		MISC. CHEMICALS		CHLOROBENZILATE	0000	U-5	10400
5 DRM		MISC. CHEMICALS		TILLAM	0000	U-5	2000

ITAL PIECES... 31 TOTAL GROSS WT. 12400

SHIPPER'S FREIGHT BILL TO: OREGON/CALIFORNIA CHEM. 29454 MEADOWVIEW RD. JUNCTION CITY, OR. 97448
Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of the shipment without payment of freight and all other lawful charges.
If charges are to be prepaid, write or stamp here: "To be Prepaid."
THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION. ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.
SHIPPER PER *Price* DRIVER'S SIGNATURE *Price* RECEIPT OF REQUIRED PLACARDS
CARRIER *Price* SHIP DATE *11/23/87*
COLLECT *Price* (Signature of Consignor.)

I.D.C. INVENTORY REPORT

MOUNT VERNON TRAFFIC GROUP

THROUGH 04/30/88

PRODUCT ID	LOT NUMBER	PKG CD	NET/GROSS	REF/DATE	LAST BAL	IN	OUT	NEW BAL	STGE RTE	AMOUNT DUE
1000	-AMONIC SURFAC.	5501	400/ 400		1			1		
1000	-ATLOX 3404F	5501	400/ 400		1			1		
1000	-BOILER WTR CONTR	5501	400/ 400		2			2		
1000	BULK TANK	5501	400/ 400		1			1		
1000	CHLORAL	5501	400/ 400		8			8		
1000	-CRYSTAL INHIBITO	5501	400/ 400		2			2		
1000	-DOT (ORZAN-A)	5501	400/ 400		7			7		
1000	DICHLOROBENZENE	5501	400/ 400		4			4		
1000	DIETHYL SULFATE	5501	400/ 400		15			15		
1000	-ISODUTYRONITRILE	5501	400/ 400		13			13		
1000	-METHYLPYROPHOSPH	5501	400/ 400		1			1		
1000	MIXED DRUM	5501	400/ 400		1			1		
1000	-ORGANIC PHOSPHAT	5501	400/ 400		1			1		
1000	PHENOXYACETIC AC	5501	400/ 400		1			1		
1000	-TERGATOL	5501	400/ 400		1			1		
1000	-TOXAPHENE	5501	400/ 400		6			6		
1000	-TRICHLOROETHANE	5501	400/ 400		1			1		
1000	-TRIMETHYL PHOSPH	5501	400/ 400		2			2		
TOTALS FOR MISC. CHEMICALS			DRM. 55 GAL S/DR NET=	27200	68	0	0	68	0.8000/EA	54.40
1000	-BENZENE	5514	400/ 400		6			6		
1000	-EPICHLOROHYDRIN	5514	400/ 400		1			1		
1000	METHANOL	5514	400/ 400		8			8		
1000	-PETRO. NAPHTHA	5514	400/ 400		1			1		
1000	-XYLENE	5514	400/ 400		8			8		
TOTALS FOR FLAMMABLE CHEMICALS			DRM 55/GA. DR-HAZ NET=	9600	24	0	0	24	1.6000/EA	38.40
TOTALS FOR ACCT										92.80
TOTAL AMOUNT DUE (MINIMUM 25.00)										92.80

92.80



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202

Ref. 4

REPLY TO: 6E-ES

MEMORANDUM

SUBJECT: After Action Report - I.D.C. (formerly A International Distribution Warehouse), Houston, Harris County, Texas

FROM: Charles A. Gazda
Chief
Emergency Response Branch (6E-E)

TO: Larry D. Wright
Chief
Superfund Enforcement Branch (6H-E)

Attached is the On-Scene Coordinator's After Action Report for the removal action taken at the subject site.

By copy of this memorandum, I am also forwarding a copy of the After Action Report to the Emergency Response Division Director in Headquarters. Please call Ragan Broyles or David Dodgen (OSC) of my staff if you have any questions regarding this report.

cc: Timothy Fields (WH-548B)
Karen Argain (WH-548B)

I.D.C. (A.I.D.) Warehouse/Site #K2
Houston, Harris County, Texas

After Action Report

February 27, 1989

David Dodgen
On-Scene Coordinator

Date

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II. EFFECTIVENESS OF REMOVAL ACTION

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III. PROBLEMS ENCOUNTERED

I. Summary of Events

A. Cause of the Incident

Ninety-one drums were abandoned at the I.D.C. (formerly known as A.I.D.) Warehouse, containing various chemical wastes and products. The chemicals in the drums included pesticides and pesticide formulation products. Because of the deteriorating condition of some of the drums there was a significant threat to warehouse workers and the surrounding population.

B. Initial Situation

The I.D.C. Warehouse is located at 7198 Mykawa Road in Houston, Harris County, Texas. The facility is located in a predominately residential district.

The drums of chemicals were placed in the AID Warehouse in Houston, Texas in March 1986 by Conservation Services, Inc. (CSI) and its sister company SIGNO. CSI/SIGNO placed the drums in the AID warehouse while attempting to obtain an export permit for the chemicals. CSI/SIGNO was unable to export the chemicals and abandoned the drums of hazardous materials. AID later contacted Texas Water Commission (TWC) for assistance in removing the drums. TWC notified ERB Region 6 of the hazardous nature of the drums contents and the deteriorating drum conditions.

The ninety-one drums were obtained by CSI/SIGNO from Colorado Organic Chemical Company (COCO). The drums were obtained in 1984 as part of a Region 8 enforcement action against COCO. Initially, 127 drums of product were obtained by CSI/SIGNO and moved to Houston by rail and truck where they were overpacked and stored in a warehouse owned by Global South Port Warehouse. CSI/SIGNO relocated the entire 127 drums to the AID warehouse in 1986 as a result of complaints filed with TWC by the owner of Global South Port Warehouse. At the time of the relocation, CSI/SIGNO was attempting to obtain an export permit for the products. CSI/SIGNO sold thirty-one drums of chemicals to Oregon California Chemicals from the AID warehouse facility. However, ninety-one drums of chemicals were ultimately abandoned at the AID warehouse.

After receipt of the TWC referral on the abandoned drums of waste at the AID warehouse, EPA initiated a site investigation on May 19, 1988. The EPA TAT contractor inventoried and photo-documented the drums and performed air monitoring in the warehouse. As a result of this site investigation, the EPA ERB determined that the abandoned drums posed an imminent health threat and initiated a removal action.

C. Responsible Parties

The original owner of the abandoned chemicals was SCI/SIGNO, however, because the company is defunct and the owners are serving jail sentences, and therefore are not a viable party. EPA issued an Administrative Order on June 22, 1988, to I.D.C. Warehouse. IDC warehouse assumed responsibility for the clean-up on 6/22/88, and completed disposing of the 91 drums 11/16/88.

D. Organization of the Response

I.D.C. Warehouse assumed responsibility for the removal of the drums. The following is a list of participants for this removal action:

Environmental Protection Agency
- David Dodgen, OSC

Ecology and Environment, Inc. (TAT)
- Richard Yeager

I.D.C. Warehouse
- Douglas Walt, President

E. Resources committed:

EPA costs

As of 3/1/89 the total TAT cost for oversight of the IDC removal was \$3,550.53. The TAT was responsible for overseeing the drum removal. The EPA costs were \$6,928.

F. Comments On the Effect On Natural Resources

There were no adverse effects on natural resources which required clean-up action.

G. Threat Abatement Action

On November 16, 1988, the I.D.C. Warehouse transported 84 drums as hazardous waste. The waste was shipped to the following disposal facilities: 59 drums to Technical Environmental Service of La Porte, Texas; 16 drums to Heat Energy Advanced Technology in Dallas, Texas; 5 drums to EMPAK, Inc., in Deer Park, Texas; and 4 drums to Marine Shale Processors, Inc., in Morgan City, Louisiana. All drums were overpacked prior to shipment. TAT photodocumented the removal of the drums from the warehouse and loading of the trucks.

Additionally, on November 16, 1988, 7 drums containing ORZAN-A were disposed of as non-hazardous material by I.D.C. Warehouse. The drums containing the ORZAN-A were initially thought to contain DDT, however sampling by the Texas Department of Agriculture indicated that DDT was not present.

Effectiveness of Removal

A. Action Taken By the Responsible Party

The removal of the drums from the warehouse on November 16, 1988 was coordinated by I.D.C. Warehouse. The removal effectively eliminated the imminent and substantial threat at the warehouse.

B. Action Taken by Other Groups

The ERB supervised this removal action. The removal of the drums met EPA criteria established in the Administrative Order.

Problems Encountered

There were no significant problems encountered during this removal action.

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Antonio Amors Environmental Specialist Houston Health Department, Houston, TX (713) 640-4399	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 3/13/89
		10:10 am
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
Mr. Amors conducted an off-site reconnaissance of the site on 3/10/89.		
The warehouse was entirely active (1/2 of warehouse rented by United Parcel Service) and is for sale. The facility did not appear to be hazardous.		
The Health Department has no records on the facility.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

RECORD OF COMMUNICATION (713) 479-5981	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Susan Ripley Field Investigator Hazardous Waste Sec., TWC Deer Park, Texas	From: Raymond Wayne FIT Hydrologist <i>Raymond Wayne</i>	Date: 3/9/89 <hr/> Time: 2:40 p.m.
SUBJECT AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
o Ann Hallford (secretary) checked the files and did not find any record of the facility. Susan did not recall hearing of the site.		
o Susan said there was a recent report (since 3/6/89) of 8 drums being found in a ditch at the 12,000 block of Mykawa Road. The drums were reported to be unlabeled and leaking substance into the water. The substance appeared to be paint-like, but no samples were collected.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Don Rennie Pesticide Enforcement Coordinator, Pesticide Enforcement Division, Texas Department of Agriculture, Austin, TX (512) 463-7552	From:	Date: 3/9/89
	Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Time:
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
There is no record of the facility in their files. They performed a computer search of their records.		
All sellers or distributors of pesticides are required to register each year (registration expires 12/31). Exceptions to registration:		
1) Volume greater than 16 ounces.		
2) Volume greater than 1 gallon if less than 10% active ingredients by volume.		
3) Substance shipped to another of the company's facilities.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

Date: DECEMBER 7, 1987Subject: RCRA Compliance Inspection Report

From: Diana G. Ayers, Chief
Houston Branch (6E-H)

To: Bill Taylor, Chief
Enforcement Section (6H-CE)

Thru: Richard Giggen, Chief
Compliance Monitoring Section (6E-HC)

Attn: Linda Thompson (6H-CE)

The attached RCRA inspection report has been prepared and reviewed by Environmental Services Division personnel. This report is being forwarded to you for your information and action.

Inspection Dates: NOVEMBER 30, 1987Name of Facility: A INTERNATIONAL DISTRIBUTION EPA ID Number: NONEFacility Mailing Address: 7189 MYKAWA State: TX ZIP Code: Facility Location: SAME State: TX ZIP Code: Facility Owner: DOUG WALT - PRESIDENT Phone Number: (713) 445-4080Description of Facility: WAREHOUSEType of Ownership: Federal State County Municipal Private ☒Did facility request a copy of the report? YES NO ☒

HW Activities: Generator Transporter Treatment
Disposal Storage ☒

Type of Inspection: Lead Overview SPMS Commitment
Land Ban LOIS CEI CME Sampling
Case Development ☒ RFA Operation and Maintenance

Inspection Participants: (name and phone number)

EPA Inspector(s) SUE FREYTAGState Inspector(s) PAULA THEYFORD - TWC DEER PARKFacility Representative(s) DOUG WALT

Checklists Completed: (indicate number of each checklist attached)

<u> </u> Generator	<u> </u> Land Ban	<u> </u> Land Treatment	<u> </u> Chemical, Physical and
<u> </u> TSD	<u> </u> LOIS	<u> </u> Groundwater	<u> </u> Biological Treatment
<u> </u> Tanks	<u> </u> Waste Piles	<u> </u> CME	<u> </u> Generator Supplement
<u> </u> Containers	<u> </u> Closure	<u> </u> O and M	<input checked="" type="checkbox"/> Attachments
<u> </u> Landfill	<u> </u> Post Closure	<u> </u> Thermal Treatment	<input checked="" type="checkbox"/> Photographs
<u> </u> Transporter	<u> </u> Incinerator	<u> </u> Surface Impoundment	<input checked="" type="checkbox"/> Other <u>NARRATIVE</u>

Apparent Violations noted during outbriefing (If applicable): See attached

On November 30, 1987, Paula Thetford of Deer-Park, accompanied Sue Freytag, EPA-Houston Branch, on two warehouse inspections. The warehouses inspected were:

1) A-International Distribution, Inc. (AID)
7198 Mykawa
Houston, Texas (713)645-4080

2) Delta Trading Warehouse
5534 Amour Dr.
Houston, Texas

- 1) The inspectors arrived at AID warehouse and met Mr. Doug Walt, president, at about 2:15 pm., and explained the intent of the investigation. Mr. Walt knew of the drums containing hazardous waste and that they were still in the warehouse. Original contact with the Mt. Vernon Group was with Mr. Burt White, who was looking for a temporary storage location for the drums which were at the Delta Trading Warehouse and the Consolidated Bonded Warehouse.

In the past year, TWC-Deer Park, has sampled six drums. Two of the samples were analyzed by the Texas Department of Agriculture to determine the quality of the chemicals for possible use (attachment 1). Results showed that some contaminants were mixed with the chlorobenzilate.

AID has been working with a broker, Tom Powers of Texas Pride, to find a buyer for the chemicals. This has netted a few potential buyers, but no sales have been transacted. At the time of the inspection, drums were being prepared to be removed by a buyer. However, the sale had fallen through shortly before the inspectors arrived.

Mr. Walt is concerned about the status of the drums and any EPA action. The drums are stored in one corner of the warehouse, but they could still be a threat to his employees.

Mr. Walt indicated that some drums associated with the Mt. Vernon Group are being stored at Central Freight Lines and Alamo Express warehouses in Houston.

Observations on the drums:

- a) All drums are still in the warehouse.
- b) One drum had a corroded lid.
- c) Strong vapors were noted in the area of a few drums. These drums appeared to be in good condition.
- d) No leaks were detected.

In a telephone conversation with Doug Walt on December 7, 1987, he said that the recently failed sale of drums had gone through on Friday December 4, 1987. The sale included 26 drums of chlorobenzilate and five drums of tillam. Tom Powers, who had been "given" the drums by AID, arranged the sale and collected profits from the transaction. The buyer for the chemicals is Oregon California Chemicals at 29454 Meadowview Road in Junction City, Oregon.

- 2) The inspectors arrived at 5534 Armour Dr. at 3:40 pm. The occupants at this address are now the Mantua Manufacturing Company. Company representatives in the office did not know anything about the previous occupants, the Delta Trading Warehouse. The manager, Rich Lender, knew of the company, but was not in the office.

On December 4, 1987, Sue Freytag called Rich Lender to ask if any drums had been left at the building when Delta Trading moved out. He said one transformer had been left behind. The transformer was removed by the new owner of Delta Trading, Global Southport Services, Inc. of 10077 Wallisville Road, Houston.

SF

4/1/87 9:30 AM

Ref: MT Vernon Trade

- SN-001

- 1000 2

Sandy with Dallas Water Commission called

Of 6 samples taken 2 were analysed
Results from Agriculture Dept are:

1— 91% Chlorobenzilate
6% Chlorobenzilate derivatives

2— 75% Chlorobenzilate
5.9% Chlorobenzilate derivatives
6% Water

Appears the broker Tom Powers wants to purchase the approx 23-26 drums of above product. You and Mr Powers should try to get in contact with each other regarding this.

Clyde @ Dept of Agriculture wants to make sure on legality of you selling product (as legality of possession of product) but don't let this hold up chance to sell if you are sure on the legality. The sale must be accepted & ok'd by Dept of Agriculture before finalized. You might want to sell if

possible. • even practically • give
Mr. Powers — if he will take — the
balance of stock just to get rid of
and not have to dispose of.

A.I.D. INVENTORY REPORT

MOUNT VERNON TRAFF GROUP

THROUGH 05/31/86

PRODUCT ID	LOT NUMBER	PKG CD	NET/GROSS	REF/DATE	LAST BAL	IN	OUT	NEW BAL	STOCK RTE	AMOUNT DUE
1000	AMONIC SURFAC.	5501	400/ 400		1			1		
1000	ATI OX 3404F	5501	400/ 400		1			1		
1000	BOILER WTR CONTR	5501	400/ 400		2			2		
1000	BULK TANK	5501	400/ 400		1			1		
1000	CHLORAL	5501	400/ 400		8			8		
1000	CHLOROBENZILATE	5501	400/ 400		26			26		
1000	CRYSTAL INHIBITO	5501	400/ 400		2			2		
1000	DIT (OKZAN-A)	5501	400/ 400		7			7		
1000	DICHLOROBENZENE	5501	400/ 400		4			4		
1000	DIETHYL SULFATE	5501	400/ 400		15			15		
1000	ISOBUTYRONITRILE	5501	400/ 400		13			13		
1000	METHYL PYROPHOSPH	5501	400/ 400		1			1		
1000	MIXED DRUM	5501	400/ 400		1			1		
1000	ORGANIC PHOSPHAT	5501	400/ 400		1			1		
1000	PHENOXYACETIC AC	5501	400/ 400		1			1		
1000	TERGITOL	5501	400/ 400		1			1		
1000	TILLAM	5501	400/ 400		5			5		
1000	TOXAPHENE	5501	400/ 400		6			6		
1000	TRICHLOROETHANE	5501	400/ 400		1			1		
1000	TRIMETHYL PHOSPH	5501	400/ 400		2			2		
TOTALS FOR MISC. CHEMICALS			IRM. 55 GAL. 5/DR NET=	39600	99	0	0	99	0.8000/EA	79.20

1000	BENZENE	5514	400/ 400		6			6		
1000	EPICHLOROHYDRIN	5514	400/ 400		1			1		
1000	METHANOL	5514	400/ 400		8			8		
1000	PETRO. NAPTHA	5514	400/ 400		1			1		
1000	XYLENE	5514	400/ 400		8			8		
TOTALS FOR FLAMMABLE CHEMICALS			IRM 55/GA. TR-HAZ NET=	9600	24	0	0	24	1.6000/EA	38.40

TOTALS FOR ACCT

117.60

TOTAL AMOUNT DUE (MINIMUM 25.00)

117.60

116095

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: David Dodgen On-Scene Coordinator Emergency Response Division, U.S. EPA, Dallas, TX (214) 655-2270	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4/18/89
		Time: 3:40 pm
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
He was On-Scene Coordinator for the AID Warehouse drum removal.		
The public could walk up to the building (no site barriers preventing access) but the warehouse completely enclosed the drums. Warehouse doors (lockable) secured the building, roof and windows are intact, and the warehouse floor is concrete.		
The facility is active. The drums were stored in a remote section of the warehouse, but there were no barriers to prevent workers from contacting the drums.		
The drums were over-packed and did not appear to have any leaks. There were no stains on the concrete floor by the drums which would indicate leakage from the drums.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Allan Mueller Assistant Field Supervisor, Ecological Services U.S. Fish & Wildlife Service Houston, TX (713) 750-1700	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4/19/89
		Time: 9:30 am
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
There are no critical habitats for Federally listed endangered species		
within 4 miles of the site, or 1 stream mile downstream of the site.		
There could be wetlands and sensitive environment within 15 stream miles		
downstream of the site. I would have to come to his office and check maps.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Ed Ranzau Hydrologist, Surface Water Division, U.S. Geological Survey Houston, Texas (713) 750-1655	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4/19/89 Time: 10:55 am
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
For Water Year 1987 (10/1/86 to 9/30/87):		
Sims Bayou		
1) At Hiram Clark Street, Houston (19.7 miles upstream of Buffalo Bayou)		
Mean Daily: 52.4 cfs; Max.: 1,450 cfs; Min.: 8.1 cfs.		
2) At Houston (7 miles upstream of Buffalo Bayou)		
Mean Daily: 168 cfs; Max.: 3,720 cfs; Min.: 30 cfs.		
Buffalo Bayou		
At Piney Point, Texas (25 miles upstream of Sims Bayou)		
Mean Daily: 390 cfs; Max.: 1,890 cfs; Min.: 50 cfs.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Tom Buckingham Assistant Section Chief Water Rights Administration Section Texas Water Commission Austin, Texas (512) 463-8240	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4-19-89
		Time: 2:10 pm
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
All surface water extractions in Texas have to be permitted by his office.		
There are no extraction permits for Sims Bayou downstream of where site		
runoff would enter the bayou.		
There is one extraction permit on Buffalo Bayou between Sims Bayou and		
15 miles downstream of the site. The permit is issued to Houston		
Power and Light (Deep Water Plant). The water is used for cooling		
purposes during power generation.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		



RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Kathlie Sheu Engineer, Ground Water Section, Public Works Dept., City of Houston, Houston, Texas (713) 247-3352	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 3-28-89
		Time: 2:40 pm
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
There are seven city water wells (drinking water) within four miles of		
the site. She will send me a map showing well locations and screened		
intervals for the wells.		
All seven city wells are interconnected with the city water supply		
system.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

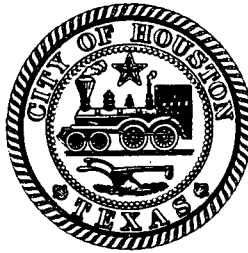


Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

BELLFORT WELL 1800 GPM
8902 COMALI

SCREEN SECTION

655'	-	680'
755'	-	790'
800'	-	820'
860'	-	870'
925'	-	935'
1045'	-	1085'
1170'	-	1235'
1215'	-	1250'



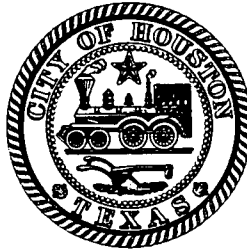
Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

EASTEND #7 WELL 2500 GPM

8120 PARK PLACE BLVD

SCREEN SECTION

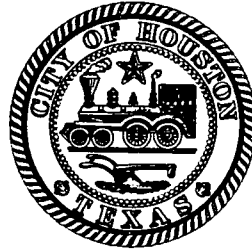
965'	—	995'
1010'	—	1030'
1060'	—	1055'
1110'	—	1165'
1165'	—	1200'
1215'	—	1240'
1255'	—	1275'
1305'	—	1325'
1400'	—	1415'
1530'	—	1560'
1570'	—	1585'
1690'	—	1730'
1755'	—	1780'



Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

EAST END #4 WELL 1800GPH
3839 OLD GALVESTON RD.
SCREEN SECTION

1100'	—	1199'
1235'	—	1270'
1565'	—	1585'
1685'	—	1760'
2070'	—	2120'
2335'	—	2350'
2510'	—	2620'

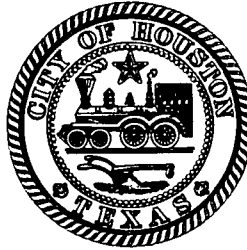


Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

EASTEND # 3 WELL 1700GPM

2320 CENTRAL AVE.
SCREEN SECTION

1195'	—	1245'
1265'	—	1275'
1320'	—	1340'
1375'	—	1410'
1495'	—	1505'
1570'	—	1610'
1630'	—	1680'
1875'	—	1885'
2005'	—	2075'
2250'	—	2280'
2305'	—	2345'



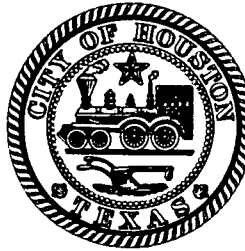
Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

HOBBY AIRPORT.

1700GPM

8049 TELEPHONE
SCREEN SECTION

820'	—	865'
915'	—	940'
1095'	—	1140'
1160'	—	1195'
1260'	—	1280'
1305'	—	1330'
1350'	—	1380'
1475'	—	1520'
1590'	—	1615'
1665'	—	1690'
1710'	—	1745'
1805'	—	1830'



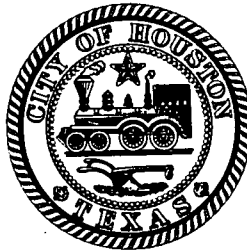
Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

SOUTH PARK #5 WELL 1850 GPM

8430 MYKAWA RD.

SCREEN SECTION

795'	-	885'
895'	-	965'
1010'	-	1050'
1130'	-	1155'
1180'	-	1195'
1285'	-	1315'
1370'	-	1415'
1420'	-	1440'
1540'	-	1550'
1680'	-	1715'
1735'	-	1765'
1820'	-	1840'



Kathlie Sheu
Engineer
Ground Water Section
Public Works Department

SOUTH PARK #4 well 1275 GPM.
8003 MYKAWA RD.

SCREEN SECTION

995' — 1020'

1185' — 1210'

1270' — 1290'

1350' — 1370'

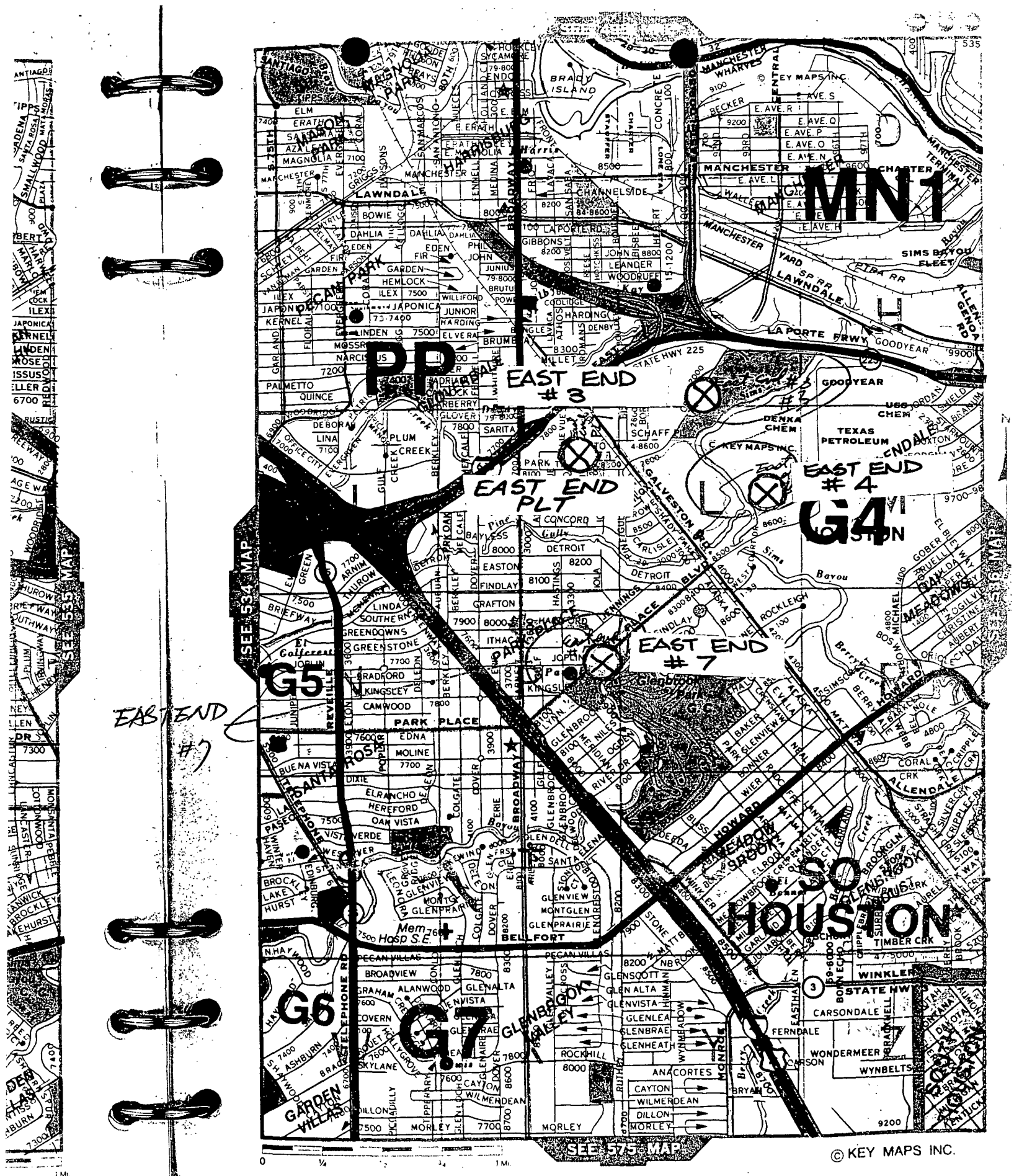
1430' — 1475'

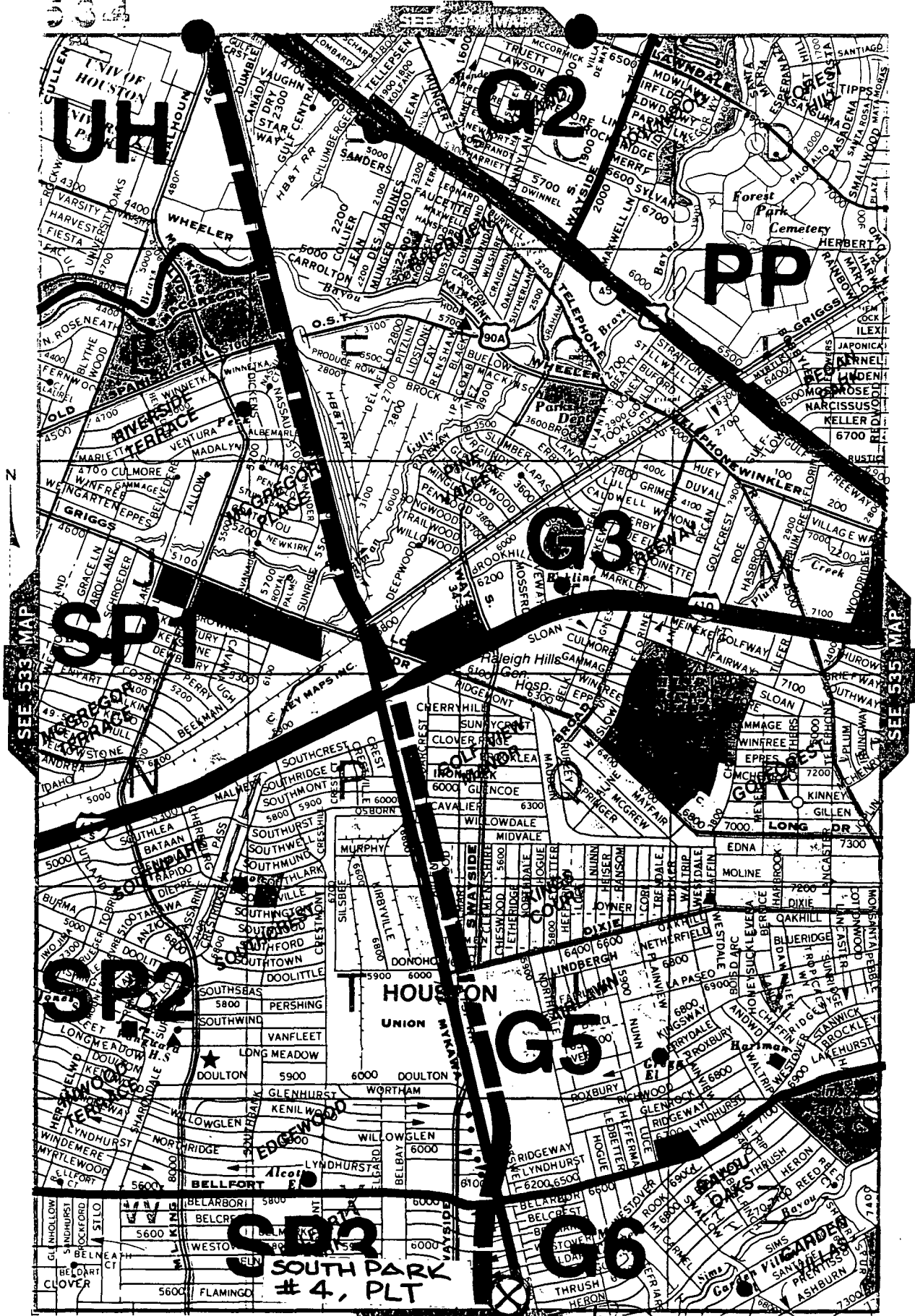
1545' — 1575'

1695' — 1725'

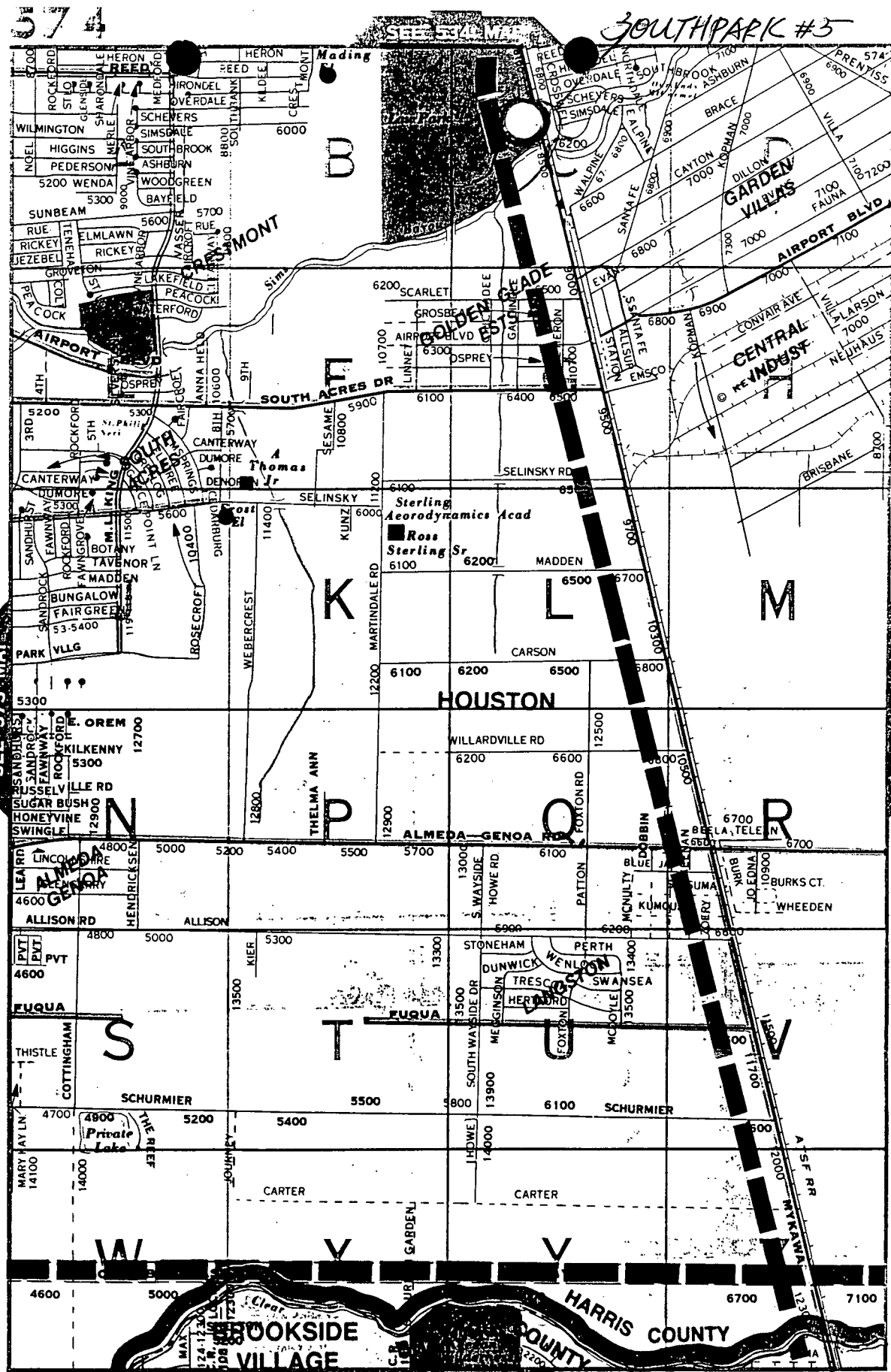
1740' — 1765'

1790' — 1825'





*South park
4, PLT*



RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: David Myers District Conservationist U.S. Soil Conservation Service, Houston, TX (713) 855-8716	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4-19-89
		Time: 3:40 pm
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
No crop land within 4 miles of the site.		
No aquaculture within 15 downstream miles of the site.		
There might be small pockets of cattle grazing land 3 to 5 miles south of the site.		
No boating on Sims Bayou (flow is mostly sewage effluent). Some fishing in Buffalo Bayou section of pathway. Buffalo Bayou is an industrial river.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Dana Barbie Section Chief, Ground Water and Subsidence Section U.S. Geological Survey, Houston, Texas (713) 750-1670	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4-20-89
		Time: 8:55 am
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
<p>The Chicot aquifer extends from the water table depth (175 to 200 feet below land surface) to approximately 600 to 700 feet below sea level near the site. The Evangeline aquifer extends from the base of the Chicot to between 2,000 to 2,500 feet below sea level.</p>		
<p>The transmissivity of the Chicot and Evangeline are both 6,000 to 9,000 feet squared per day.</p>		
<p>The site is not in a recharge area of the Chicot. The Beaumont clay extends from land surface to between 15 and 20 feet below land surface. More than half the unsaturated zone is clay.</p>		
<p>The Chicot is comprised of interfingering sand and clay and is hydrologically connected to the Evangeline aquifer. No hydrologic barrier between aquifers, difference in hydraulic conductivity and water chemistry. No discontinuities within 4 miles of the site. There are salt domes, but the resulting faults have little vertical movement.</p>		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in
the July 16, 1982, *Federal Register*

United States
Environmental Protection
Agency

1984

Dangerous Properties of Industrial Materials

Sixth Edition

N. IRVING SAX

Assisted by:

Benjamin Feiner/Joseph J. Fitzgerald/Thomas J. Haley/Elizabeth K. Weisburger



VAN NOSTRAND REINHOLD COMPANY
NEW YORK CINCINNATI TORONTO LONDON MELBOURNE

SYNS:

DIMETHYLACETIC ACID
ISOPROPYLFORMIC ACID
ALPHA-METHYLPROPIONIC ACID

2-METHYLPROPANOIC ACID
2-METHYLPROPIONIC ACID

TOXICITY DATA:

3-2

CODEN:

skn-rbt 139 ug/24H open
orl-rat LD50: 280 mg/kg
skn-rbt LD50: 500 mg/kg

AIHAAP 23,95,62
AIHAAP 23,95,62
AIHAAP 23,95,62

Toxicology Review: AMIHAB 21,100,60. DOT: Corrosive Material, Label: Corrosive FEREAC 41,57018,76. Reported in EPA TSCA Inventory, 1980. EPA TSCA 8(a) Preliminary Assessment Information Proposed Rule FERREAC 45,13646,80.

THR: HIGH via orl and MOD via dermal routes. A skn irr in rbt.

Fire Hazard: Mod, when exposed to heat or flame; can react with oxidizing materials.

To Fight Fire: Alcohol foam, CO₂, dry chemical.

ISOBUTYRIC ACID, BENZYL ESTER

CAS RN: 103286

NIOSH #: NQ 4550000

mf: C₁₁H₁₄O₂; mw: 178.25

SYNS:

BENZYL ISOBUTYRATE

BENZYL-2-METHYL PROPIONATE

TOXICITY DATA:

2

CODEN:

orl-rat LD50: 2850 mg/kg

FCTXAV 11,1023,73

Reported in EPA TSCA Inventory, 1980.

THR: MOD orl. See also esters.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

ISOBUTYRIC ANHYDRIDE

CAS RN: 97723

NIOSH #: NQ 5550000

mf: C₈H₁₄O₃; mw: 158.22

Liquid, decomp in water. bp: 360°F, d: 0.951-0.956 @ 20°/20°, vap. d: 5.5, flash p: 139°F, autoign. temp.: 665°F.

TOXICITY DATA:

3

DOT: Corrosive Material, Label: Corrosive FEREAC 41,57018,76.

Reported in EPA TSCA Inventory, 1980. EPA TSCA 8(a) Preliminary Assessment Information Proposed Rule FERREAC 45,13646,80.

THR: HIGH irr to skin, eyes and mu mem.

Fire Hazard: Mod, when exposed to heat, flame, oxidizers.

To Fight Fire: Alcohol foam, fog, dry chemical, CO₂.

ISOBUTYRONITRILE

CAS RN: 78820

NIOSH #: TZ 4900000

mf: C₄H₇N; mw: 69.12

Colorless liquid, slightly sol in water, very sol in alcohol and ether. flash p: 46.4°F. d: 0.773 @ 20°/20°, bp: 107°, mp: -75°.

SYNS:

ISOPROPYL CYANIDE

2-METHYLPROPIONITRILE

TOXICITY DATA:

3-2-1 CODEN:

skn-rbt 380 mg open MLD
orl-rat LD50: 102 mg/kg
ihl-rat LCLo: 1000 ppm/4H
skn-rbt LD50: 310 mg/kg
scu-rbt LDLo: 9 mg/kg
scu-frg LDLo: 4800 mg/kg

UCDS** 10/29/59
UCDS** 10/29/59
AIHAAP 23,95,62
AIHAAP 23,95,62
AIPTAK 5,161,1899
AIPTAK 5,161,1899

Occupational Exposure to Nitriles recm std: Air: TWA 22 mg/m³ NTIS**. Reported in EPA TSCA Inventory, 1980. EPA TSCA 8(a) Preliminary Assessment Information Proposed Rule FERREAC 45,13646,80. *THR:* HIGH orl, skn, scu. MOD ihl; LOW scu. See also nitriles.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_x.

8-ISOBUTYRYL-3-METHYL-3,8-DIAZABICYCLO(3.2.1)OCTANE

CAS RN: 57269371

NIOSH #: HM 0463000

mf: C₁₁H₂₀N₂O; mw: 196.33

TOXICITY DATA:

3

CODEN:

orl-mus LD50: 250 mg/kg
ipr-mus LD50: 200 mg/kg

RPOBAR 2,205,70
RPOBAR 2,194,70

THR: HIGH orl, ipr.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_x.

ISOCAINE

CAS RN: 533288

NIOSH #: TN 3325000

mf: C₁₆N₂₃NO₂·ClH; mw: 297.86

SYNS:

O-AMINOBENZOYL DI(ISOPROPYLAMINO)ETHANOL HYDROCHLORIDE

DL-(2-METHYLPYPERIDINO)PROPYL BENZOATE HYDROCHLORIDE

3-BENZOXY-1-(2-METHYLPYPERIDINO)PROPANE HYDROCHLORIDE

GAMMA-(2-METHYLPYPERIDINO)PROPYL BENZOATE HYDROCHLORIDE

DL-3-BENZOXY-1-(2-METHYLPYPERIDINO)PROPANE HYDROCHLORIDE

(+)-GAMMA-(2-METHYLPYPERIDYL)PROPYL BENZOATE HYDROCHLORIDE

BENZOYL-GAMMA-(2-METHYLPYPERIDINE)-PROPANOL HYDROCHLORIDE

METHYCAINE HYDROCHLORIDE
NEOTHESIN HYDROCHLORIDE
PIPEROCAINE HYDROCHLORIDE

3-(2-METHYLPYPERIDINO)PROPYL BENZOATE HYDROCHLORIDE

TOXICITY DATA:

3-2

CODEN:

ipr-rat LD50: 120 mg/kg
ivn-rat LD50: 20 mg/kg
scu-mus LD50: 589 mg/kg
ivn-mus LD50: 22 mg/kg
scu-cat LDLo: 200 mg/kg
scu-rbt LDLo: 300 mg/kg
ivn-rbt LD50: 28 mg/kg
isp-rbt LDLo: 10 mg/kg

JLCMAK 15,731,30
12VXA5 8,839,68
JACSAT 68,2592,46
JACSAT 68,2592,46
JPETAB 24,167,25
JPETAB 24,167,25
JLCMAK 15,731,30
JPETAB 57,221,36

THR: HIGH ipr, ivn, scu, isp; MOD scu.

Disaster Hazard: When heated to decomp it emits very tox fumes of NO_x and HCl.

ISOCAMPHYL CYCLOHEXANOL (MIXED ISOMERS)

NIOSH #: GW 0878000

2602 TOMAYMYCIN

SYNS:

LYCOPERSICIN
ALPHA-TOMATINE

TOMATIDINE GLYCOSIDE

TOXICITY DATA:

3-2

CODEN:

orl-rat LD50:900 mg/kg
orl-mus LD50:500 mg/kg
ipr-mus LD50:32 mg/kg
ivn-mus LD50:18 mg/kg

TXAPA9 3,39,61
FCTXAV 17,61,79
RCOCB8 12,657,75
TXAPA9 3,39,61

THR: HIGH ivn, ipr. MOD orl.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_x.

TOMAYMYCIN

CAS RN: 35050556

NIOSH #: UY 8533000

mf: C₁₆H₂₀N₂O₄; mw: 304.38

Produced by *Streptomyces Achromogenes* var. *Tomaymyceticus* (85ERAY 2,1303,78)

SYN: 5H-PYRROLO(2,2-C)(1,4)BENZODIAZEPIN-5-ONE, 2-ETHYLDENE-1,2,3,10,11,11A-HEXAHYDRO-8-HYDROXY-7,11-DIMETHOXY-

TOXICITY DATA:

3

CODEN:

dnd-mam:lym 400 umol/L
ipr-mus LD50:3 mg/kg

BBACAQ 475,521,77
85ERAY 2,1303,78

THR: MUT data. HIGH ipr.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_x.

TONKA ABSOLUTE

NIOSH #: XW 1830000

Main constituent is coumarin, found in seeds of fruit of tree *dipteyx odorata* (FCTXAV 12,807,74)

TOXICITY DATA:

2

CODEN:

skn-mus 500 mg
skn-rbt 500 mg/24H
orl-rat LD50:1380 mg/kg

FCTXAV 12,807,74
FCTXAV 12,807,74
FCTXAV 12,807,74

THR: MOD orl. A skn irr. See also coumarin.

TOPAZ

CAS RN: 1302596

NIOSH #: XW 2800000

White powder; colored crystals.

SYNS:

ALUMINUM HEXAFLUOROSILICATE

FLUOSILICATE DE ALUMINUM
(FRENCH)

TOXICITY DATA:

1

CODEN:

orl-gpg LDLo:5000 mg/kg
scu-gpg LDLo:4000 mg/kg

AMSSAQ 400,5,63
AMSSAQ 400,5,63

Toxicology Review: AMSSAQ 400,5,63. Reported in EPA TSCA Inventory, 1980.

THR: LOW orl, scu. See also fluorosilicates.

Disaster Hazard: When heated to decomp it emits tox fumes of F⁻.

TOPOCAINE HYDROCHLORIDE

CAS RN: 537611

NIOSH #: DG 5775000

mf: C₂₂H₃₃NO₃·ClH; mw: 396.02

SYNS:

P-CYCLOHEXYLOXYBENZOIC
ACID-3-(2-METHYLPYRIDI-
NO)PROPYL ESTER HYDRO-
CHLORIDE
N-(3-HYDROXYPROPYL)PIPE-
COLINE HYDROCHLORIDE
P-CYCLOHEXYLOXYBENZOIC
ACID ESTER

3-(2-METHYLPYRIDI-NO)PRO-
PYL-P-(CYCLO-HEXYLOXY)
BENZOATE HYDROCHLORIDE
SURFACINE HYDROCHLORIDE
SURFATHESIN HYDROCHLORIDE

TOXICITY DATA:

3-2

CODEN:

orl-rat LD50:2340 mg/kg
scu-mus LD50:447 mg/kg
ivn-mus LD50:54 mg/kg

29ZVAB -,37,69
JACSAT 68,2592,46
JACSAT 68,2592,46

THR: HIGH ivn; MOD orl, scu.

Disaster Hazard: When heated to decomp it emits very tox fumes of HCl and NO_x.

N-alpha-TOSYL-L-LYSYL- CHLOROMETHYLKETONE

CAS RN: 2364876

NIOSH #: XT 5150000

mf: C₁₄H₂₁ClN₂O₃S; mw: 332.7

SYNS:

BENZENESULFONAMIDE, N-(5-
AMINO-1-(CHLOROACETYL)-
PENTYL)-4-METHYL-, (S)- (9CI)
TOSYLLYSINE CHLOROMETHYL
KETONE

TOSYL-L-LYSINE CHLORO-
METHYL KETONE
TOSYLLYSYL CHLOROMETHYL
KETONE

TOXICITY DATA:

3

CODEN:

ipr-mus LD50:59 mg/kg
scu-mus LD50:64 mg/kg
ipr-mus TDLo:280 mg/kg (28D pre)
ivg-mus TDLo:280 mg/kg (28D pre)

DCTODJ 3,227,80
DCTODJ 3,227,80
JPMSAE 70,60,81
JPMSAE 70,60,81

THR: HIGH ipr, scu. See also ketones.

Disaster Hazard: When heated to decomp it emits very tox fumes of Cl⁻, NO_x and SO_x.

TOXAPHENE

CAS RN: 8001352

NIOSH #: XW 5250000

mf: C₁₀H₁₀Cl₈; mw: 413.80

Yellow, waxy solid, pleasant piney odor. mp: 65°-90°. Almost insol in water; very sol in aromatic hydrocarbons.

SYNS:

CHLORINATED CAMPENE
CHLOROCAMPENE
ENT 9,735
NCI-C00259
OCTACHLOROCAMPENE

POLYCHLOROCAMPENE
POLYCHLORINATED CAMPENES
POLYCHLOROCAMPENE
TOXAFEN (DUTCH)
TOXAPHEN (GERMAN)

TOXICITY DATA:

3

CODEN:

orl-rat TDLo:96 mg/kg (7-22D preg)
orl-rat TDLo:150 mg/kg (7-16D preg)
orl-rat TDLo:250 mg/kg (7-16D preg)
skn-mam 500 mg MOD
mmo-sat 500 ug/plate
mma-sat 500 ug/plate
orl-rat TDLo:30 gm/kg/80W-C:ETA

JPFC2 B15,365,80
BECTA6 15,660,76
BECTA6 15,660,76
JAMAAP 149,1135,52
SCIEAS 205,591,79
SCIEAS 205,591,79
NCITR* NCI-CG-TR-
37,79
NCITR* NCI-CG-TR-
37,79
NCITR* NCI-CG-TR-
37,79
CMEP** -,1,56
85DCAI 2,73,70

orl-mus TDLo:6600 mg/kg/80W-
C:CAR

orl-mus TD:13 gm/kg/80W-C:CAR

orl-hmn LDLo:40 mg/kg
unk-man LDLo:44 mg/kg

orl-rat LD50:40 mg/kg
 skn-rat LD50:600 mg/kg
 ipr-rat LDLo:70 mg/kg
 orl-mus LD50:112 mg/kg
 ihl-mus LCLo:2000 mg/m³/2H
 ipr-mus LD50:47 mg/kg
 orl-dog LD50:15 mg/kg
 orl-rbt LDLo:780 mg/kg
 skn-rbt LD50:1025 mg/kg
 orl-gpg LD50:250 mg/kg
 orl-ham LD50:200 mg/kg
 orl-dck LD50:71 mg/kg

SPEADM 74-1,-,74
 SPEADM 74-1,-,74
 BECTA6 19,47,78
 SPEADM 74-1,-,74
 JAMAAP 149,1135,52
 JAFCAU 25,1394,77
 SPEADM 74-1,-,74
 GUCHAZ 6,507,73
 JEENAI 46,702,53
 85DPAN -,71/76
 TXAPA9 48,A192,79
 TXAPA9 22,556,72

Aquatic Toxicity Rating: TLM96: under 1 ppm
 WQCHM* 4,-,74.

Carcinogenic Determination: Animal Positive IARC**
 20,327,79.

TLV: Air: 0.5 mg/m³ (skin) DTLVS* 4,79,80. *Toxicology Review*: ANAEA3 35,165,75; DTTIAF 80(20),485,73; RREVAH 56,107,75. OSHA Standard: Air: TWA 500 ug/m³ (skin) (SCP-F) FEREAC 39,23540,74. DOT-ORM-A, Label: None FEREAC 41,57018,76. NCI Carcinogenesis Bioassay Completed; Results Positive: Mouse (NCITR* NCI-CG-TR-37,79); Results Indefinite: Rat (NCITR* NCI-CG-TR-37,79). "NIOSH Manual of Analytical Methods" VOL 2 S67.

THR: MUT data. A skn irr. An exper CARC, ETA. HIGH hmnl orl and man unk HIGH orl, ipr, ihl. MOD skn. Not recommended for use in dairy barns or on milking animals. Can cause mild irr and be absorbed through skn. Causes CNS stimulation with tremors, convulsions, death. Liver injury has been reported.

A pesticide. The Food and Drug Administration (1955) proposes a tolerance of 7 ppm for residues on fruits and vegetables. Tox and, in some instances, lethal amounts of toxaphene can enter the body through the mouth, lungs and skin. Systemic absorption of the insecticide is increased by the presence of digestible oils, and liquid preparations of the insecticide which penetrate the skin more readily than do dusts and wettable powders. A tox mixture of organochlorine pesticides stored to some extent in body fat. It resembles chlordane and, to some extent, camphor in its physiological action. It causes diffuse stimulation of the brain and spinal cord resulting in generalized convulsions of a tonic or clonic character. Death usually results from respiratory failure. Detoxification appears to occur in the liver.

Dangerous Acute and Chronic Dose: The lethal oral dose for man is estimated to be 2-7 g, a toxicity of about four times that of DDT. Toxaphene causes moderate irr on the skin but little or no sensitization. At least seven human deaths have been reported due to toxaphene, all in children. Two families have been made ill by eating vegetables containing a large residue of toxaphene.

Signs and Symptoms of Poisoning: The symptoms are excitement followed by epileptiform convulsions associated with depression; these symptoms are aggravated by external stimuli. Death usually results from respiratory failure and may occur as early as 4 hrs and as late as 24 hrs after poisoning. In calves, sheep, and goats, internal hemorrhage and high temps have been

reported, the latter also being one of the symptoms of camphor poisoning in man.

Pathology: Degenerative changes in the liver parenchyma and renal tubules were reported in laboratory animals chronically receiving toxaphene.

Treatment of Poisoning: The stomach and intestinal tract should be evacuated. Oily laxatives should be avoided. Contaminated clothing should be removed and contaminated areas should be scrubbed with soap and water. Anticonvulsant drugs (bromides, barbiturates, etc.) should be administered. Sodium phenobarbital is the drug of choice to prevent convulsions, and sodium pentobarbital is best to control those already in evidence. Dosages may have to be quite high in the presence of poisoning in order to control symptoms but should not be high enough to interfere with continuous sleep.

Disaster Hazard: When heated to decomp it emits tox fumes of Cl⁻.

For further information see Vol. 1, No. 8 and Vol. 2, No. 2 of *DPIM Report*.

TOXIFERINE DICHLORIDE

CAS RN: 6696588 NIOSH #: XW 5500000
 mf: C₄₀H₄₆N₄O₂·2Cl; mw: 685.80

Sol in water. Crystals.

SYN: C-TOXIFERINE 1

TOXICITY DATA:	3	CODEN:
ivn-mky LD50:8900 ng/kg		TXAPA9 35,107,76
ims-mky LD50:18 ug/kg		TXAPA9 35,107,76
ims-gpg LD50:14 ug/kg		TXAPA9 35,107,76

THR: HIGH ivn, ims. A poison.

Disaster Hazard: When heated to decomp it emits very tox fumes of NO_x and Cl⁻.

TOXIN HT 2

CAS RN: 26934-87-2 NIOSH #: YD 0050000
 mf: C₂₁H₃₂O₈; mw: 412.53

SYN: 12,13-EPOXY-TRICHOHEC-9-ENE-3-ALPHA,15-TETROL 15-ACETATE, 8-ISOVALEATE

TOXICITY DATA:	3	CODEN:
orl-ckn LD50:7220 ug/kg		AEMIDF 35,636,78

THR: HIGH orl.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

TPA-20-ACETATE

NIOSH #: GZ 0597000
 mf: C₃₈H₅₇O₉; mw: 657.95

TOXICITY DATA:	CODEN:
skn-mus 39 ng MLD	COSUDL 2,11,78

THR: A skn irr.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: Petty Hunter Superintendent City of Houston Parks Department, Houston, TX (713) 845-1019	From:	Date:
	Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	4-20-89 Time: 2:50 pm
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
There are no recreational uses (fishing, boating, swimming) within 15 downstream miles of the site. Buffalo Bayou is an industrial use river.		
There are no recreation structures or improvement within 15 downstream miles of the site.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

<p align="center">RECORD OF COMMUNICATION</p>	<p align="center">(Record of Item Checked Below)</p> <p><input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip</p> <p><input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)</p>	
<p>TO: Al Calloway Executive Assistant to Harris County Commissioner (Precinct 1) El Franco Lee Houston, Texas (713) 221-5000</p>	<p>From:</p> <p>Raymond Wayne, FIT Hydrologist</p> <p><i>Raymond Wayne</i></p>	<p>Date: 4-20-89</p> <hr/> <p>Time: 3:50 pm</p>
<p>SUBJECT: AID Warehouse - PA (TXD987966066)</p>		
<p>SUMMARY OF COMMUNICATION</p>		
<p>No recreational use of the surface water pathway for 15 downstream miles.</p>		
<p>No recreational structures or improvements for 15 downstream miles of the site.</p>		
<p>Buffalo Bayou is an industrial river.</p>		
<p>CONCLUSIONS, ACTION TAKEN OR REQUIRED</p>		
<p>INFORMATION COPIES TO:</p>		

RECORD OF COMMUNICATION	(Record of Item Checked Below) <input checked="" type="checkbox"/> Phone Call <input type="checkbox"/> Discussion <input type="checkbox"/> Field Trip <input type="checkbox"/> Conference <input type="checkbox"/> Other(Specify)	
TO: John L. Jones Recreation Superintendent Edgewood Park City of Houston Parks Department Houston, Texas (713) 734-8434	From: Raymond Wayne, FIT Hydrologist <i>Raymond Wayne</i>	Date: 4-21-89
		Time: 11:50 am
SUBJECT: AID Warehouse - PA (TXD987966066)		
SUMMARY OF COMMUNICATION		
There are just single family homes between Selinsky Road and Interstate 610 near the site.		
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO:		

Fire Protection Guide
on
Hazardous Materials
8th Edition



National Fire Protection Association
Batterymarch Park
Quincy, MA 02269

	FLASH POINT °F(°C)	IGNITION TEMP. °F(°C)	FLAMMABLE LIMITS Percent by Vol.		Sp. Gr. (Water = 1)	Vapor Density (Air = 1)	BOILING POINT °F(°C)	Water Soluble	SEE INTRODUCTION FOR SUGGESTED EXTINGUISHING METHODS	HAZARD IDENTIFICATION		
			Lower	Upper						Health	Flamma- bility	Reac- tivity
Dodecyl Benzene (Crude) $C_{12}H_{25}C_{12}H_{25}$ (Alkane) (Detergent Alkylate)	285				0.9		554-770 (290-410)	No	2	1	1	0
Dodecyl Bromide	See Lauryl Bromide.											
Dodecylene (α) $C_{16}H_{31}CH:CH_2$ (1-Dodecene)	<212 (<100)	491 (255)			0.76	5.81	406 (208)			0	1	0
Dodecyl Mercaptan	See 1-Dodecanethiol.											
tert-Dodecyl Mercaptan $C_{12}H_{25}SH$	205 (96) (oc)				0.9		428-451 (220-233)	No		2	1	0
4-Dodecyloxy-2-Hydroxy- Benzophenone $C_{25}H_{34}O_3$	498 (254)	715 (379)						No	2		1	0
Note: Melting point 109 (43).												
Dodecyl Phenol $C_{12}H_{25}C_6H_4OH$	325 (163) (oc)				0.9	9.0	597-633 (314-334)	No	2	0	1	0
Dynpene $C_6H_5COCH_2C(CH_3)C_6H_5$ (1,3-Diphenyl-2- Buten-1-one)	350 (177) (oc)				1.1		475 (246) @ 50 mm	Slight	2 5	1	1	0
Eicosane $C_{20}H_{42}$	>212 (>100)	450 (232)			0.79	9.75	651 (344)				1	0
Epichlorohydrin CH_2CHOCH_2Cl (2-Chloropropylene Oxide) (γ-Chloropropylene Oxide)	88 (31) (oc)	772 (411)	3.8	21.0	1.2	3.2	239 (115)	Yes	5	3	2	2
Note: See Hazardous Chemicals Data.												
1,2-Epoxyethane	See Ethylene Oxide.											
Erythrene	See 1,3-Butadiene.											
Ethanal	See Acetaldehyde.											
Ethane CH_3CH_3	Gas	882 (472)	3.0	12.5		1.0	-128 (-89)	No	6	1	4	0
1,2-Ethanediol	See Ethylene Glycol.											
1,2-Ethanediol Diformate $HCOOCH_2CH_2OOCH$ (Ethylene Formate) (Ethylene Glycol Diformate) (Glycol Diformate)	200 (93) (oc)				1.2		345 (174)	Decom- poses		1	2	0
Decomposes in water.												
Ethanethiol	See Ethyl Mercaptan.											
Ethanoic Acid	See Acetic Acid.											
Ethanoic Anhydride	See Acetic Anhydride.											
Ethanol	See Ethyl Alcohol.											
Ethanolamine $NH_2CH_2CH_2OH$ (2-Amino Ethanol) (β-Aminoethyl Alcohol)	185 (85)	770 (410)			1.0+	2.1	342 (172)	Yes	5	2	2	0
Ethanoyl Chloride	See Acetyl Chloride.											
Ethene	See Ethylene.											
Ethenyl Ethanoate	See Vinyl Acetate.											
Ethenyloxyethene	See Divinyl Ether.											
Ether	See Ethyl Ether.											
Ethine	See Acetylene.											
Ethoxyacetylene $C_2H_5OC_2H$	<20 (<-7)				0.8	2.4	124 (51)	No	1	2	3	1

